DFCM DESIGN AND CODE CRITERIA

APPLICABLE CODES			
	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for Building Conservation	N/A
International Plumbing Code	2006	ADA Accessibility Guildelines	2006
International Fire Code	2006		
International Energy Conservation Code	N/A		

A. Occupancy and Group: B

Change in Use: Yes _____ No X Mixed Occupancy: Yes _____ No X

Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: 3 Design Wind Speed: N/A mph

C. Type of Construction (circle one):

I A	I B	II A	II B	III A	III B	IV HT	V A	V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: N/A South: N/A East: N/A West: N/A

E. Mixed Occupancies: NO Nonseparated Uses: NO

F: Sprinklers:

Required: NO Provided: YES Type of Sprinkler System: WET PIPE

G: Number of Stories: 1 Building Height: N/A

H: Actual Area per Floor (square feet): 14,368 actual bldg sq ft

I: Tabular Area: as per table 503 (23,000 sq ft allowed.)

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_t\, I_f}{100}\right] + \left[\frac{A_t\, I_s}{100}\right]$ $\qquad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for:

1) One Story: -

2) Two Story: $A_a(2)$ -

3) Three Story: $A_a(3)$ -

d) Unlimited Area Building: Yes _____ No X Code Section: N/A

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	-	Floors - Ceiling Floors	0	-
Interior Bearing Walls	0	-	Roofs - Ceiling Roofs	0	-
Exterior Non-Bearing Walls	0	-	Exterior Doors and Windows	0	-
Structural Frame	0	-	Shaft Enclosures	N/A	-
Partitions - Permanent	0	-	Fire Walls	0	-
Fire Barriers	0	-	Fire Partitions	0	-
			Smoke Partitions	0	-

L. Design Occupant Load: XX

Exit Width Required: XX Exit Width Provided: XX

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) XX (f) XX Provided (m) X (f) X

b) Lavatories - Required (m) XX (f) XX Provided (m) X (f) X

c) Bath Tubs or Showers: XX

d) Drinking Fountains: XX Service Sinks: XX

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
   a) High Rise Requirements.
   b) Atriums.
   c) Performance Based Criteria.
   d) Means or Egress Analysis.
   e) Fire Assembly Locator Sheet.
   f) Exterior and Interior Accessibility Route.
   g) Fire Stopping, Including Tested Design Number.

DEPARTMENT OF SAFETY
RICHFIELD ITS UHP DISPATCH MODIFICATIONS

DFCM PROJECT NO. 06298550
RICHFIELD, UTAH 84701

THE GREAT SEAL OF THE STATE OF UTAH — INDUSTRY — 1847 — 1896

State of Utah—Department of Administrative Services

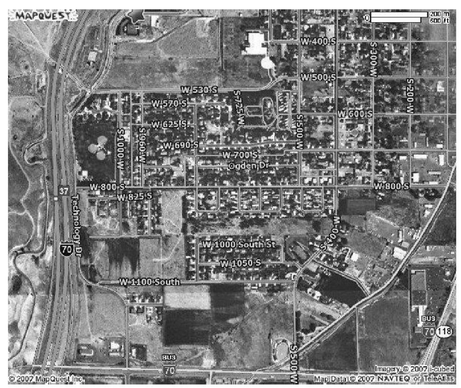
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

PROFESSIONAL ENGINEER — 01/22/08 — WINWARD M. PACKER — No. 375080 — STATE OF UTAH

WHW ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whw-engineering.com

DRAWING INDEX:



MECHANICAL ENGINEER
WHW ENGINEERING, INC.
1354 EAST 3300 SOUTH
SUITE 200
SALT LAKE CITY, UTAH 84106
PHONE: (801) 466-4021 FAX: (801) 466-8536

ARCHITECT
P + A ARCHITECTS
821 EAST KENSINGTON AVENUE.
SALT LAKE CITY, UTAH 84105
PHONE: (801) 484-1161 FAX: (801) 485-4640

ELECTRICAL ENGINEER
THOMAS & KOLKMAN ENGINEERING CO. INC.
64 WEST 1700 SOUTH
SALT LAKE CITY, UTAH 84115
PHONE: (801) 484-8161 FAX: (801) 484-3538

DFCM DESIGN AND CODE CRITERIA

APPLICABLE CODES			
	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	N/A
International Fire Code	2006	ADA Accessibility	
International Energy		Guildelines	2006
Conservation Code	N/A		

A. Occupancy and Group: B

Change in Use: Yes ____ No X Mixed Occupancy: Yes ____ No X

Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: 3 Design Wind Speed: N/A mph

C. Type of Construction (circle one):

I A | I B | II A | [II B] | III A | III B | IV HT | V A | V B

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E. Mixed Occupancies: NO Nonseparated Uses: NO

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Required: NO Provided: YES Type of Sprinkler System: WET PIPE

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Interior Bearing Walls	0	–	Roofs - Celling Roofs	0	–
Exterior Non-Bearing Walls	0	–	Exterior Doors and Windows	0	–
Structural Frame	0	–	Shaft Enclosures	N/A	–
Partitions - Permanent	0	–	Fire Walls	0	–
Fire Barriers	0	–	Fire Partitions	0	–
			Smoke Partitions	0	–

L. Design Occupant Load: XX

Exit Width Required: XX Exit Width Provided: XX

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) XX (f) XX Provided (m) X (f) X
b) Lavatories - Required (m) XX (f) XX Provided (m) X (f) X
c) Bath Tubs or Showers: XX
d) Drinking Fountains: XX Service Sinks: XX

FOOTNOTES:

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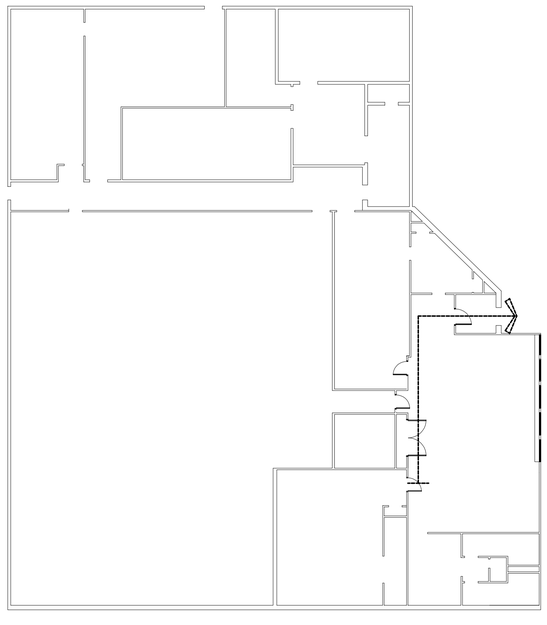
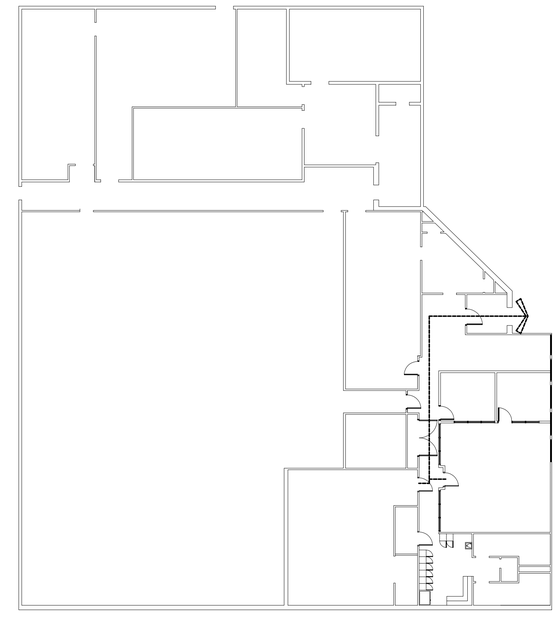
   c) Performance Based Criteria.
   d) Means or Egress Analysis.
   e) Fire Assembly Locator Sheet.
   f) Exterior and Interior Accessibility Route.
   g) Fire Stopping, Including Tested Design Number.



NORTH

02 AG001 EXISTING FLOOR PLAN

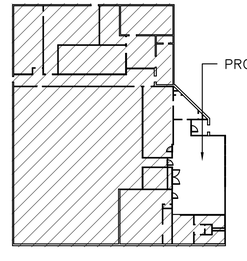
SCALE 1/16" = 1'-0"



NORTH

01 AG001 NEW FLOOR PLAN

SCALE 1/16" = 1'-0"



KEY PLAN

SCALE: NONE

State of Utah
Department of Administrative Services

Division of Facilities
Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267

Internet: http://www.dfcm.state.ut.us

CONSULTANTS

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640
e-mail parchitects@comcast.net
ARCHITECTURE PLANNING DESIGN

PROJECT NAME & ADDRESS

DEPARTMENT OF SAFETY RICHFIELD ITS UHP DISPATCH MODIFICATION

DFCM No. 06298550

Richfield, Utah 84701

MARK	DATE	REVISION

PROJECT MANAGER: WP
DRAWN BY: STAFF
CHECKED BY: SLW
DATE: 01/15/08
WHW JOB NO.: 06054

STATE OF UTAH · BRENT R. PAYNE · 261110 · LICENSED ARCHITECT

SHEET TITLE

ARCHITECTURAL GENERAL INFORMATION

SHEET NO. A-G001

LEGEND

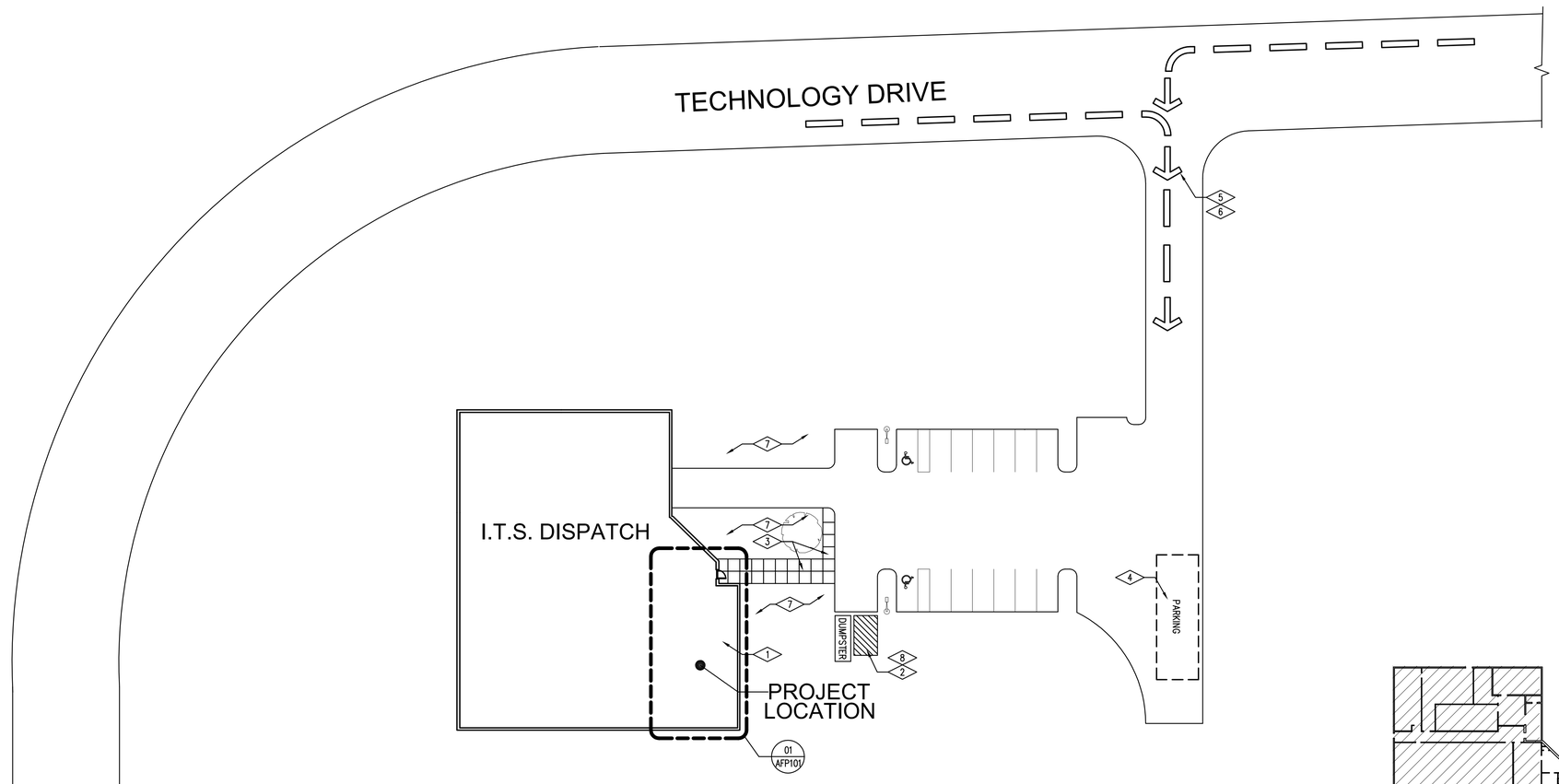
- CONTRACTOR STAGING AREA
- PARKING — CONTRACTOR PARKING AREA
- DUMPSTER — CONTRACTORS DUMPSTER LOCATION
- PROJECT LOCATION
- CONTRACTOR VEHICLE ACCESS TO CONSTRUCTION SITE

GENERAL NOTES

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY SIDEWALK, CURB & GUTTER, ASPHALT, LANDSCAPING ETC. DISTURBED OR DESTROYED DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN EMERGENCY AND UTILITY VEHICLE ACCESS AT ALL TIMES TO ALL EXISTING BUILDINGS AND BUILDING ENTRANCES
3. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BIDDING.
4. GENERAL CONTRACTOR SHALL PROTECT EXISTING BUILDING FROM DAMAGE DURING CONSTRUCTION.
5. EXISTING DRIVE APPROACHES TO REMAIN CLEAR AT ALL TIMES
6. ALL EXISTING SIDEWALKS TO REMAIN CLEAR AT ALL TIMES
7. ALL EXISTING CONCRETE AND ASPHALT PATHWAYS TO REMAIN OPEN TO PEDESTRIANS AND VEHICLES AT ALL TIMES DURING CONSTRUCTION
8. GENERAL CONTRACTOR SHALL PROVIDE SELF CONTAINED TOILET FACILITIES AS PER SPECIFICATION.
9. BUILDING ENTRANCES AND EXITS SHALL NOT BE BLOCKED OR CLOSED AT ANY TIME DURING CONSTRUCTION.

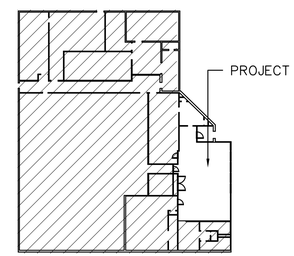
REFERENCE NOTES

1. PROJECT LOCATION
2. GENERAL CONTRACTORS STAGING AREA
3. EXISTING CONCRETE AND ASPHALT PATHWAYS TO REMAIN OPEN TO PEDESTRIANS AND VEHICLES AT ALL TIMES DURING CONSTRUCTION
4. GENERAL CONTRACTORS PARKING AREA
5. CONTRACTOR VEHICLE ACCESS TO CONSTRUCTION SITE
6. EXISTING DRIVE APPROACHES TO REMAIN CLEAR AT ALL TIMES
7. EXISTING AREA OF LANDSCAPING NOT TO BE DISTURBED
8. GENERAL CONTRACTOR SHALL PROVIDE SELF CONTAINED TOILET FACILITIES AS PER SPECIFICATION DURING CONSTRUCTION. LOCATE SELF CONTAINED TOILET FACILITIES INSIDE STAGING AREA



PLAN NORTH

01 ASP100 SCALE N.T.S. SITE PLAN



KEY PLAN
SCALE: NONE

State of Utah
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DFCM No. 06298550

Richfield, Utah 84701

MARK	DATE	REVISION

PROJECT MANAGER: WP
DRAWN BY: STAFF
CHECKED BY: SLW
DATE: 01/22/08
WHW JOB NO.: 06054

STATE OF UTAH · SCOTT R. PETER · 261110 · LICENSED ARCHITECT

SHEET TITLE

SITE PLAN

SHEET NO. A-SP101

REFERENCE NOTES

1 NOTE.

GENERAL NOTES

1. NOTE

LEGEND

E — EXISTING EXIT SIGN, TO BE REMOVED AND RETURNED TO OWNER.

EXISTING 2x4 FLUORESCENT LAY-IN LIGHT FIXTURE TO BE REMOVED.

EXISTING SUPPLY AIR DIFFUSER
SEE MECHANICAL DRAWINGS FOR NEW DIFFUSERS LOCATIONS

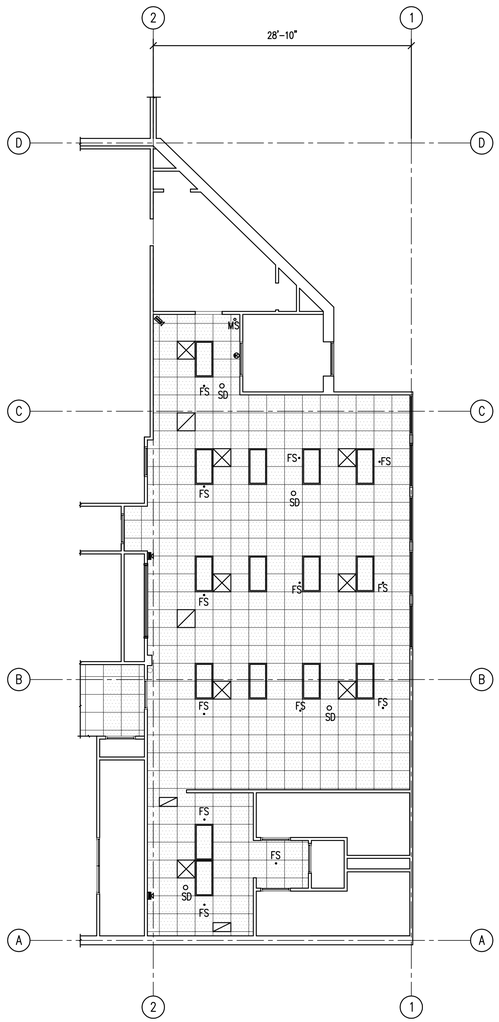
EXISTING RETURN AIR DIFFUSER
SEE MECHANICAL DRAWINGS FOR NEW DIFFUSER LOCATIONS

MS — EXISTING MOTION SENSOR TO BE REMOVED AND REINSTALLED AS PER ELECTRICAL DRAWINGS.

EXISTING FIRE ALARM STROBE LIGHT LOCATION.
PROVIDE NEW AS PER ELECTRICAL DRAWINGS.

FS — EXISTING FIRE SPRINKLER HEAD PROVIDE NEW FIRE SPRINKLER HEAD LOCATIONS AS NEEDED PER MECHANICAL AND PLUMBING PERFORMANCE SPECIFICATION REQUIREMENTS IN AREAS OF CONSTRUCTION

HATCH PATTERN INDICATED AREA OF EXISTING LAY-IN CEILING TILE, CEILING GRID SYSTEM, LIGHT FIXTURES, MECHANICAL DIFFUSERS, AND ALL OTHER CEILING ELEMENTS TO BE REMOVED.



N NORTH

02 ADP101 DEMOLITION CEILING PLAN
SCALE 1/8" = 1'-0"

REFERENCE NOTES

1 AT WALLS THAT ARE SHOWN TO REMAIN, GENERAL CONTRACTOR SHALL REMOVE EXISTING RUBBER BASE AND ASSOCIATED ADHESIVE. GENERAL CONTRACTOR SHALL PROVIDE NEW RUBBER BASE AT THESE LOCATIONS AS PER SPECIFICATION.

2 EXISTING CARPET TO BE REMOVED. GENERAL CONTRACTOR TO PROVIDE NEW CARPET AS PER DRAWINGS AND SPECIFICATIONS.

3 AT EXISTING WALL THAT ARE TO REMAIN GENERAL CONTRACTOR SHALL REVIEW ELECTRICAL DRAWINGS FOR OUTLETS TO BE REMOVE AND NEW ELECTRICAL, DATA, PHONE ETC. LOCATIONS.

4 EXISTING GYPSUM BOARD WALLS TO BE REMOVED

5 EXISTING DOOR AND FRAME TO BE REMOVED

6 EXISTING CASEWORK TO REMAIN UNDISTURBED AND PROTECTED.

7 EXISTING ELECTRIC WATER COOLER TO REMAIN UNDISTURBED AND PROTECTED.

8 EXISTING WALL MOUNTED CLOCKS TO BE REMOVED. SEE ELECTRICAL DRAWINGS FOR NEW WALL MOUNTED CLCOK LOCATIONS.

9 EXISTING COKE MACHINE TO BE REMOVED AND RELOCATED AS PER OWNERS DIRECTIONS.

10 EXISTING REFERIGERATOR TO BE REMOVED AND STORED DURING CONSTRUCTION. RELOCATE AS PER NEW FLOOR PLAN.

11 GENERAL CONTRACTOR SHALL REMOVE EXISTING LAYER OF ⅝" GYPSUM BOARD AT LOCATIONS WHERE NEW LOCKERS AND CABINETS ARE TO BE LOCATED. GENERAL CONTRACTOR SHALL PROVIDE WOOD BLOCKING AS NEEDED FOR ADEQUATE SUPPORT OF NEW CASEWORK. PROVIDE NEW ⅝" GYPSUM BOARD AND FINISH AS REQUIRED TO MAINTAIN UL 1 HOUR FIRE RATING.

12 EXISTING FIRE RATED DOOR, FRAME AND HARDWARE TO BE REMOVED AND RELOCATED AS PER NEW FLOOR PLAN.

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL REPLACE AND REPAIR ALL CONCRETE FLOORING DAMAGED DURING THE DEMOLITION AND CONSTRUCTION.
2. SEE ELECTRICAL & MECHANICAL DEMOLITION DRAWINGS & NOTES.
3. IN AREAS OF CONSTRUCTION WHERE WALLS ARE TO REMAIN, GENERAL CONTRACTOR SHALL PATCH AND REPAIR WALL SURFACE TO RECEIVE NEW FINISH AS PER FINISH SCHEDULE.
4. GENERAL CONTRACTOR SHALL PROVIDE A 6 MIL POLYETHYLENE DUST BARRIER FROM FLOOR TO METAL DECK ABOVE AND SHALL BE SEALED AIR TIGHT IN ALL PHASED AREA OF CONSTRUCTION

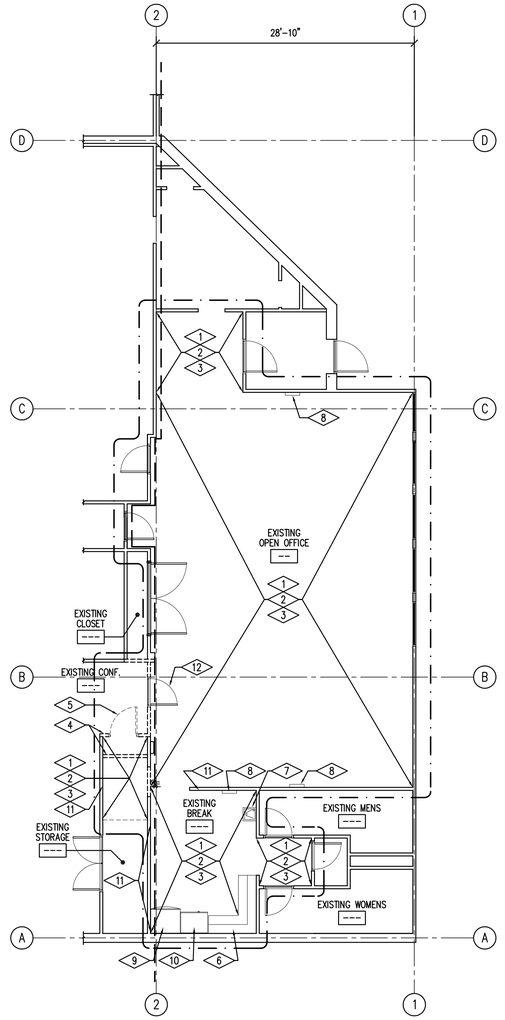
LEGEND

DASHED DOOR LINES INDICATE EXISTING DOOR AND FRAME TO BE REMOVED

DASHED LINES INDICATE EXISTING WALLS TO BE REMOVED.

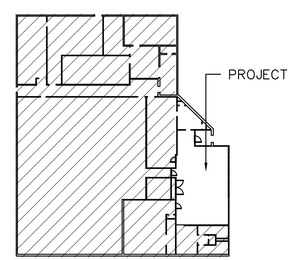
CONTRACT LIMIT LINE

1 HOUR FIRE WALL LOCATION



N NORTH

01 ADP101 DEMOLITION FLOOR PLAN
SCALE 1/8" = 1'-0"



KEY PLAN
SCALE: NONE

State of Utah
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4110 State Office Building
Salt Lake City, Utah 84114
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MARK	DATE	REVISION

PROJECT MANAGER: WP
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STATE OF UTAH — SCOTT R. PAPP — 261110 — LICENSED ARCHITECT

SHEET TITLE
DEMOLITION FLOOR AND CEILING PLAN

SHEET NO. A-DP101

REFERENCE NOTES

1. EXISTING CEILING SYSTEM AT EXISTING CONFERENCE ROOM LOCATION TO BE REPAIRED TO A "LIKE NEW" FINISH

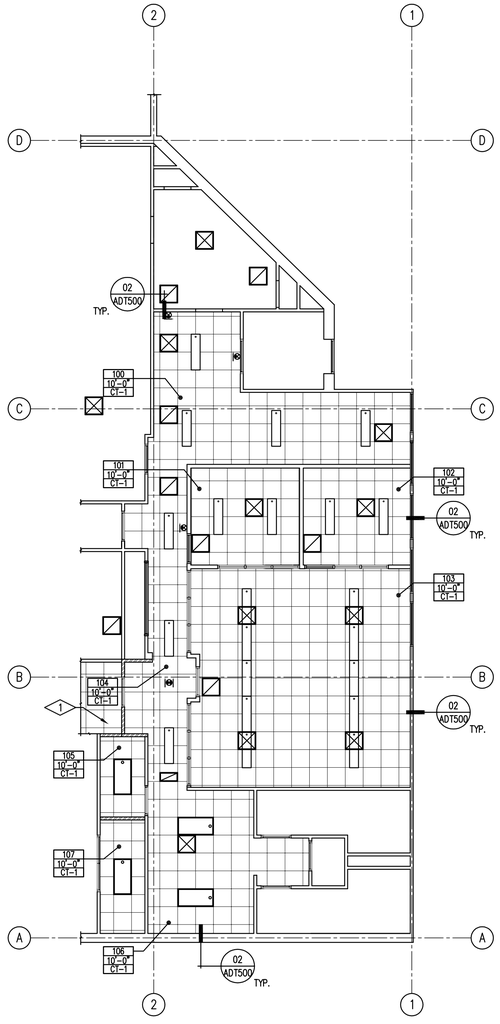
CEILING LEGEND

- 101 / 9'-0" / C1 — ROOM NUMBER / CEILING HEIGHT / CEILING TYPE
- NEW 2x4 FLUORESCENT LAY-IN LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
- NEW EXIT SIGN, SEE ELECTRICAL DRAWINGS.
- NEW HANGING DIRECT/INDIRECT FLUORESCENT LIGHT FIXTURE WITH ADJUSTABLE LIGHTING. SEE ELECTRICAL DRAWINGS.
- SUPPLY AIR DIFFUSER CONTRACTOR TO VERIFY LOCATION WITH MECHANICAL DRAWINGS
- RETURN AIR DIFFUSER GENERAL CONTRACTOR TO VERIFY WITH MECHANICAL DRAWINGS

GENERAL NOTES

1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES.
2. NEW SUSPENDED CEILING GRIDS SHALL BE CENTERED IN SPACES AS SHOWN ON REFLECTED CEILING PLANS, UNLESS SHOWN OTHERWISE.

*3. GENERAL CONTRACTOR SHALL NOTE THAT BOTTOM OF METAL DECK IS 5'-0" ABOVE FINISHED CEILING HEIGHT AS NOTED ON REFLECTED CEILING PLAN.



02 AFP101 NEW REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0"

NORTH

REFERENCE NOTES

1. GENERAL CONTRACTOR SHALL PRIME, PAINT AND PROVIDE NEW RUBBER BASE FOR NEW WALL IN EXISTING CONFERENCE ROOM 100
2. NEW METAL LOCKERS, SEE INTERIOR ELEVATIONS AND SPECIFICATIONS
3. EXISTING BREAKROOM CASEWORK TO REMAIN UNDISTURBED. GENERAL CONTRACTOR SHALL PROVIDE NEW RUBBER BASE AT CASEWORK
4. EXISTING ELECTRICAL WATER COOLER TO REAIN UNDISTURBED.
5. AT EXISTING 1 HOUR FIRE RATED WALL LOCATION WHERE GENERAL CONTRACTOR WILL BE CUTTING INTO WALL TO PROVIDE A NEW DOOR, THE GENERAL CONTRACTOR SHALL PATCH AND REPAIR THE EXISTING GYPSUM BOARD WALL TO MAINTAIN THE 1 HOUR RATED ASSEMBLE
6. EXISTING HOLLOW METAL DOORS AND FRAMES TO BE REPAINTED ON SIDE WHERE NEW CONSTRUCTION IS OCCURRING TO MATCH FINISHED PAINT AS SCHEDULED ON NEW HOLLOW METAL DOORS AND FRAMES.
7. PROPOSED LOCATION OF BUILDING SECURITY MONITOR. GENERAL CONTRACTOR SHALL VERIFY EXACT LOCATION WITH END USER. GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL WALL SUPPORT/BACKING AS NEEDED FOR MONITOR ATTACHMENT, SEE ELECTRICAL DRAWINGS.
8. PROPOSED LOCATION OF 52" PLASMA GAS TV MONITOR. GENERAL CONTRACTOR SHALL VERIFY EXACT LOCATION WITH END USER. GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL WALL SUPPORT/BACKING AS NEEDED FOR MONITOR ATTACHMENT, SEE ELECTRICAL DRAWINGS.
9. HVAC CONTROL PANEL LOCATION, SEE MECHANICAL DRAWINGS.
10. FIRE ALARM PANEL LOCATION, SEE ELECTRICAL DRAWINGS.
11. PROX. READER PANEL LOCATION, SEE ELECTRICAL DRAWINGS.
12. PROVIDE BLOCKING IN WALL AS NEEDED FOR ADEQUATE SUPPORT REQUIRED FOR NEW CASEWORK. GENERAL CONTRACTOR SHALL REPLACE WITH NEW ⅝" TYPE "X" GYPSUM BOARD AND PATCH/FINISH AND PAINT WALL AS NEEDED.
13. EXISTING FIRE RATED DOOR, FRAME AND HARDWARE TO BE RELOCATED.

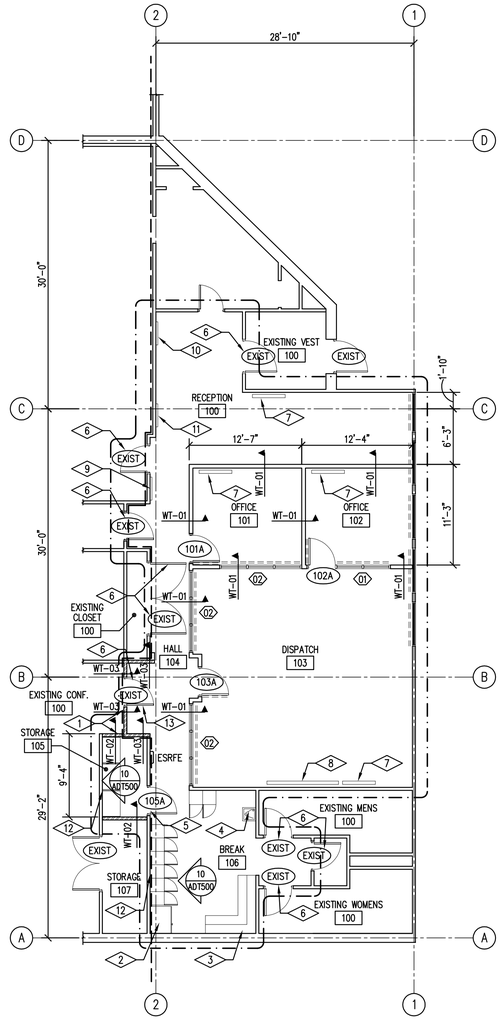
FLOOR PLAN LEGEND

- 100A — DOOR TAG, SEE DOOR SCHEDULE
- RM. NAME / 100 — ROOM TAG
- WT-01 — WALL TYPE, SEE WALL TYPES SHEET A
- EXIST — EXISTING DOOR TO REMAIN UNDISTURBED
- NEW WALL LOCATIONS SEE WALL TYPES ON DRAWING A501
- CONTRACT LIMIT LINE
- 01 — WINDOW TAG
- E.S.R.F.E. — EXISTING SEMI-RECESSED FIRE EXTINGUISHER TO REMAIN UNDISTURBED.
- 1 HOUR FIRE WALL LOCATION
- DASHED LINE AT WINDOWS INDICATES LOCATION OF 2" HORIZONTAL LOUVERS & BLINDS, SEE SPECIFICATION SECTION 12511

GENERAL NOTES

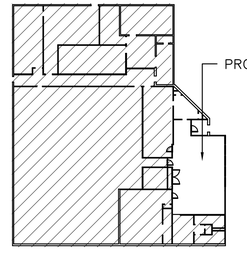
1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES.
2. SEE WALL TYPES FOR WALL ASSEMBLIES.
3. WHERE NEW WALLS TIE-IN TO EXISTING GYPSUM BOARD WALLS, GENERAL CONTRACTOR SHALL CREATE A "LIKE NEW" FINISH.
4. WHERE WALLS HAVE BEEN REMOVED THAT TIE INTO WALLS THAT ARE TO REMAIN, THE GENERAL CONTRACTOR SHALL PATCH, REPAIR, REPAINT, PROVIDE NEW RUBBER BASE AND FINISH WALLS TO A "LIKE NEW" FINISH.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE TO PATCH, REPAIR AND REPAINT ALL EXISTING WALLS THAT WILL NEED TO BE CUT IN ORDER TO INSTALL ELECTRICAL CONDUITS AND BOXES AS SHOWN ON ELECTRICAL DRAWINGS.
6. IN EACH AREA/PHASE OF CONSTRUCTION, GENERAL CONTRACTOR SHALL PROVIDE A 6 MIL POLETHLYENE DUST BARRIER FROM FLOOR TO METAL DECK ABOVE.
7. WHERE WALLS HAVE BEEN REMOVED AND OPENINGS HAVE BEEN INFILLED, GENERAL CONTRACTOR SHALL PATCH AND REPAIR WALL AT LOCATIONS TO CREATE A "LIKE NEW" WALL READY FOR FINISH PAINT

*8. GENERAL CONTRACTOR SHALL NOTE THAT BOTTOM OF METAL DECK IS 5'-0" ABOVE FINISHED CEILING HEIGHT AS NOTED ON REFLECTED CEILING PLAN.



01 AFP101 NEW FLOOR PLAN
SCALE 1/8" = 1'-0"

NORTH



KEY PLAN
SCALE: NONE

State of Utah
Department of Administrative Services
Division of Facilities Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://www.dfcm.state.ut.us

CONSULTANTS

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640
e-mail parchitects@comcast.net
ARCHITECTURE PLANNING DESIGN

PROJECT NAME & ADDRESS

DEPARTMENT OF SAFETY RICHFIELD ITS UHP DISPATCH MODIFICATION

DFCM No. 06298550

Richfield, Utah 84701

MARK	DATE	REVISION

PROJECT MANAGER: WP
DRAWN BY: STAFF
CHECKED BY: SLW
DATE: 01/15/08
WHW JOB NO.: 06054

STATE OF UTAH SCOTT W. WARD 261110 LICENSED ARCHITECT

SHEET TITLE
NEW FLOOR AND CEILING PLAN

SHEET NO. A-FP101

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING TYPE	CEILING HEIGHT	NOTES
100	RECEPTION	F1	B1	W-2	W-2	W-1	W-2	CT-1	10'-0"	
101	OFFICE	F1	B1	W-1	W-1	W-1	W-1	CT-1	10'-0"	
102	OFFICE	F1	B1	W-1	W-2	W-1	W-1	CT-1	10'-0"	
103	OPEN OFFICE	F1	B1	W-1	W-2	W-2	W-1	CT-1	10'-0"	
104	HALL	F1	B1	W-2	W-1	W-2	W-2	CT-1	10'-0"	
105	STORAGE	F1	B1	W-1	W-2	W-1	W-2	CT-1	10'-0"	
106	BREAK ROOM	F1	B1	W-2	W-2	W-2	W-2	CT-1	10'-0"	
107	STORAGE	F2	B1	W-1	W-2	W-2	W-2	CT-1	10'-0"	

BASE TYPES

B-1	NEW 4" STRAIGHT EDGE RUBBER BASE, SEE SPECIFICATION

FLOOR FINISHES

F-1	NEW CARPET SQUARES, SEE SPECIFICATION
F-2	EXISTING CARPET TO REMAIN

WALL FINISHES

W-1	PAINTED GYPSUM BOARD
W-2	EXISTING GYPSUM BOARD WALL TO BE PATCHED, PRIMED AND REPAINTED

CEILING TYPES

CT-1	2x2 LAY-IN CEILING AND GRID SYSTEM, SEE SPECIFICATIONS

GLAZING TYPES

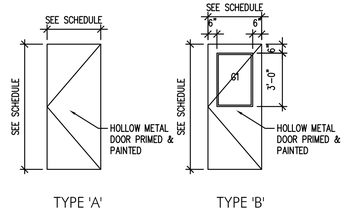
G-1	1" INSULATED, TEMPERED GLAZING, CLEAR
G-2	1" INSULATED GLAZING, CLEAR

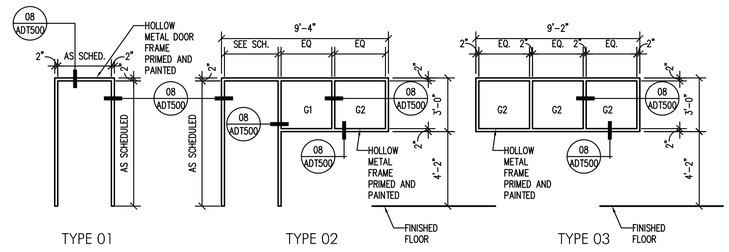
DOOR AND FRAME SCHEDULE

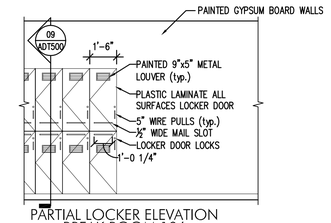
DOOR	SINGLE/PAIR	DOOR SIZE WxH	DOOR DEPTH	DOOR TYPE	DOOR MATL	DOOR FINISH	FRAME DEPTH	FRAME TYPE	FRAME MATL	FRAME FINISH	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL THRSH	HARDWARE SET	FIRE RATING DOOR & FRAME	NOTES
101A	S	3'-0" X 7'-0"	1¾"	B	HM	PAINT	6"	01	HM	PAINT	06/ADT500	06/ADT500	NONE	03	NONE	
102A	S	3'-0" X 7'-0"	1¾"	B	HM	PAINT	6"	02	HM	PAINT	06/ADT500	06/ADT500	NONE	03	NONE	
103A	S	3'-0" X 7'-0"	1¾"	B	HM	PAINT	6"	01	HM	PAINT	06/ADT500	06/ADT500	NONE	03	NONE	
105A	S	3'-0" X 7'-0"	1¾"	A	HM	PAINT	6"	01	HM	PAINT	06/ADT500	06/ADT500	NONE	01	45 MIN.	

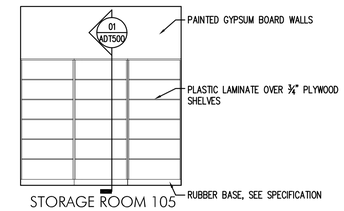
GENERAL NOTES FOR DOOR AND FRAMES

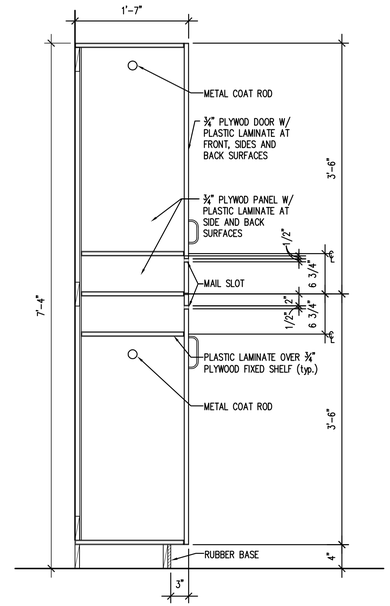
1. SEE REFERANCE NOTE #6 ON DRAWING AFP-101 THAT INDICATES LOCATION OF EXISTING HOLLOW METAL DOOR AND FRAMES TO BE REPAINTED ON THE SIDE WHERE NEW CONSTRUCTION AND PAINTING WILL OCURE.









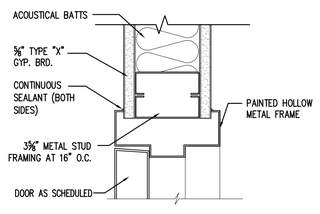


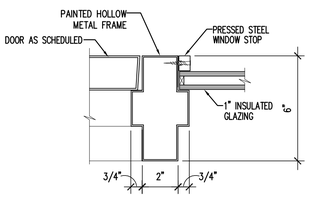
12 ADT500 — T-00.dwg
DOOR TYPES
SCALE 1/4" = 1'-0"

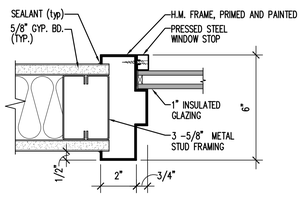
11 ADT500 — T-00.dwg
DOOR & WINDOW FRAME TYPES
SCALE 1/4" = 1'-0"

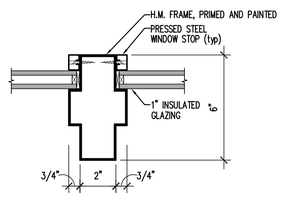
10 ADT500 — T-00.dwg
INTERIOR ELEVATION
SCALE 1/4" = 1'-0"

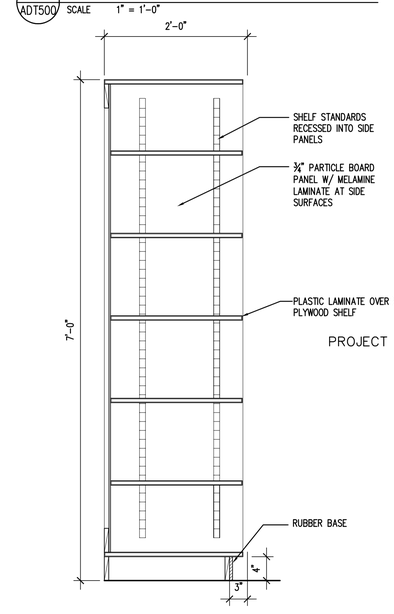
09 ADT500
LOCKER SECTION
SCALE 1" = 1'-0"









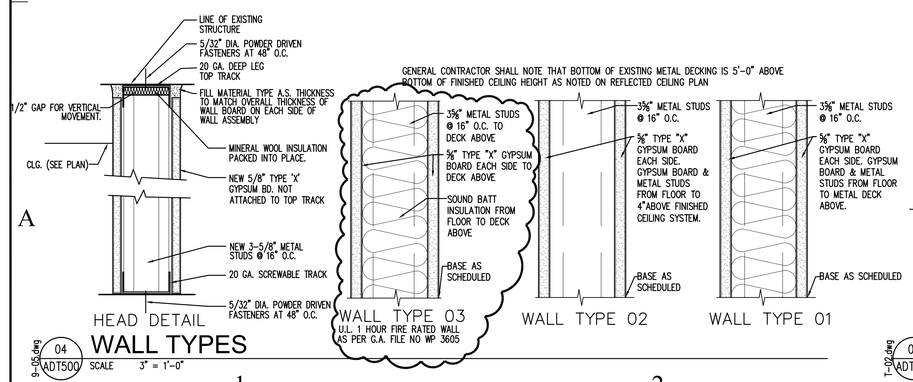


08 9-05.dwg ADT500
JAMB / HEAD DETAIL
SCALE 3" = 1'-0"

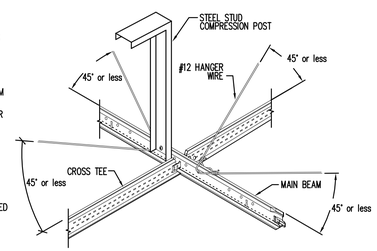
07 9-05.dwg ADT500
JAMB DETAIL
SCALE 3" = 1'-0"

06 9-05.dwg ADT500
WINDOW DETAIL
SCALE 3" = 1'-0"

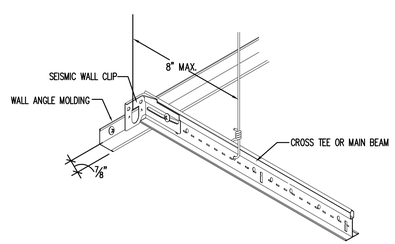
05 9-05.dwg ADT500
WINDOW DETAIL
SCALE 3" = 1'-0"



04 9-05.dwg ADT500
WALL TYPES
SCALE 3" = 1'-0"



03 T-00.dwg ADT500
HORIZONTAL RESTRAINT
SCALE 3" = 1'-0"



02 T-00.dwg ADT500
LAY-IN CEILING DETAIL
SCALE 3" = 1'-0"

01 ADT500
CASEWORK SECTION
SCALE 1" = 1'-0"

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CONSULTANTS

P+A architects
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Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640
e-mail parchitects@comcast.net
ARCHITECTURE PLANNING DESIGN

PROJECT NAME & ADDRESS

DEPARTMENT OF SAFETY RICHFIELD ITS UHP DISPATCH MODIFICATION

DFCM No. 06298550

Richfield, Utah 84701

MARK	DATE	REVISION

PROJECT

PROJECT MANAGER: WP
DRAWN BY: STAFF
CHECKED BY: SLW
DATE: 01/15/08
WHW JOB NO.: 06054

STATE OF UTAH — SCOTT R. PAGE — 261110 — LICENSED ARCHITECT

SHEET TITLE
DEMOLITION FLOOR AND CEILING PLAN

SHEET NO. A-DT500

MECHANICAL LEGEND

SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY		
A / ME-101		SECTION LETTER DESIGNATION
		SECTION DRAWN ON THIS SHEET
A2		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION
AH / 1		MECHANICAL EQUIPMENT DESIGNATION
		EQUIPMENT ITEM DESIGNATION
D-1 / CFM		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW
R-1		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE
1		REVISION DESIGNATOR AND NUMBER
1		KEY NOTE DESIGNATOR AND NUMBER
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
AFF		ABOVE FINISHED FLOOR
AP		ACCESS PANEL
C EL.		CENTER LINE ELEVATION
GC		GENERAL CONTRACTOR
MC		MECHANICAL CONTRACTOR
CC		CONTROL CONTRACTOR
EC		ELECTRICAL CONTRACTOR
NIC		NOT IN CONTRACT
NTS		NOT TO SCALE

SYMBOL	ABR.	DESCRIPTION
AIR SIDE		
		EXISTING AIR DUCT TO BE REMOVED
		EXISTING AIR DUCT TO REMAIN
		NEW AIR DUCT
		RECT. TO RECT. AIR DUCT TAKE-OFF
		RECT. TO RND. AIR DUCT TAKE-OFF
		RND. TO RND. AIR DUCT TAKE-OFF
		RECT. TAKE-OFF AT END OF MAIN
		FLEXIBLE AIR DUCT
		LINED DUCT
		VANED ELBOW
		RADIUS ELBOW
		CONCENTRIC DUCT TRANSITION
		ECCENTRIC DUCT TRANSITION
		FLEXIBLE AIR DUCT
VD		VOLUME DAMPER
		SUPPLY AIR DIFFUSER
		RETURN AIR, FRESH AIR, AND TRANSFER AIR
		RETURN OR OUTSIDE AIR DUCT UP
		SUPPLY DUCT UP
		RETURN AIR DUCT DOWN
		SUPPLY DUCT DOWN
		ROUND DUCT UP
		LOWER DUCT DOWN
		FLEXIBLE DUCT CONNECTION
		ROUND DUCT DOWN
		FLEXIBLE DUCT CONNECTION
		PARALLEL BLADE DAMPER
		OPPOSED BLADE DAMPER
	AP	ACCESS PANEL
		EXISTING EQUIPMENT TO BE REMOVED
		EXISTING EQUIPMENT TO REMAIN
		NEW EQUIPMENT
F	FD	FIRE DAMPER
R	RD	RADIATION TYPE FIRE DAMPER
S	SD	SMOKE DAMPER
FS	FS	FIRE & SMOKE DAMPER
T	T-STAT	WALL MOUNTED THERMOSTAT
SA		SUPPLY AIR
RA		RETURN AIR
OA		OUTSIDE AIR
FA		FRESH AIR
RF		RELIEF AIR

SYMBOL	ABR.	DESCRIPTION
WET SIDE		
(RELOC)		RELOCATED
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		EXISTING PIPING TO BE REMOVED
		EXISTING PIPING TO REMAIN
		NEW PIPING
		PIPE CAP OR PLUG
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
CD		CONDENSATE DRAIN
G		NATURAL GAS PIPING
		DIRECTION OF FLOW
		UNION
	BV	BALL VALVE

GENERAL NOTES:

G-1 MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

G-2 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE PRESENTED TO THE ENGINEER FOR APPROVAL BEFORE MAKING ANY CHANGES.

G-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

G-4 THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

G-5 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

G-6 MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

G-7 SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

G-8 PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

G-9 SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

G-10 PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

G-11 THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

G-12 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

G-13 C.F.M. LISTED IS ACTUAL AIR.

G-14 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

G-15 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

G-16 ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

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Phone: (801) 538 - 3018
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CONSULTANTS

WHW ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whw-engineering.com

PROJECT NAME & ADDRESS

DEPARTMENT OF SAFETY RICHFIELD ITS UHP DISPATCH MODIFICATION

DFCM No. 06298550

Richfield, Utah 84701

MARK	DATE	REVISION

PROJECT MANAGER: WP
DRAWN BY: STAFF
CHECKED BY: SLW
DATE: 01/22/08
WHW JOB NO.: 06054

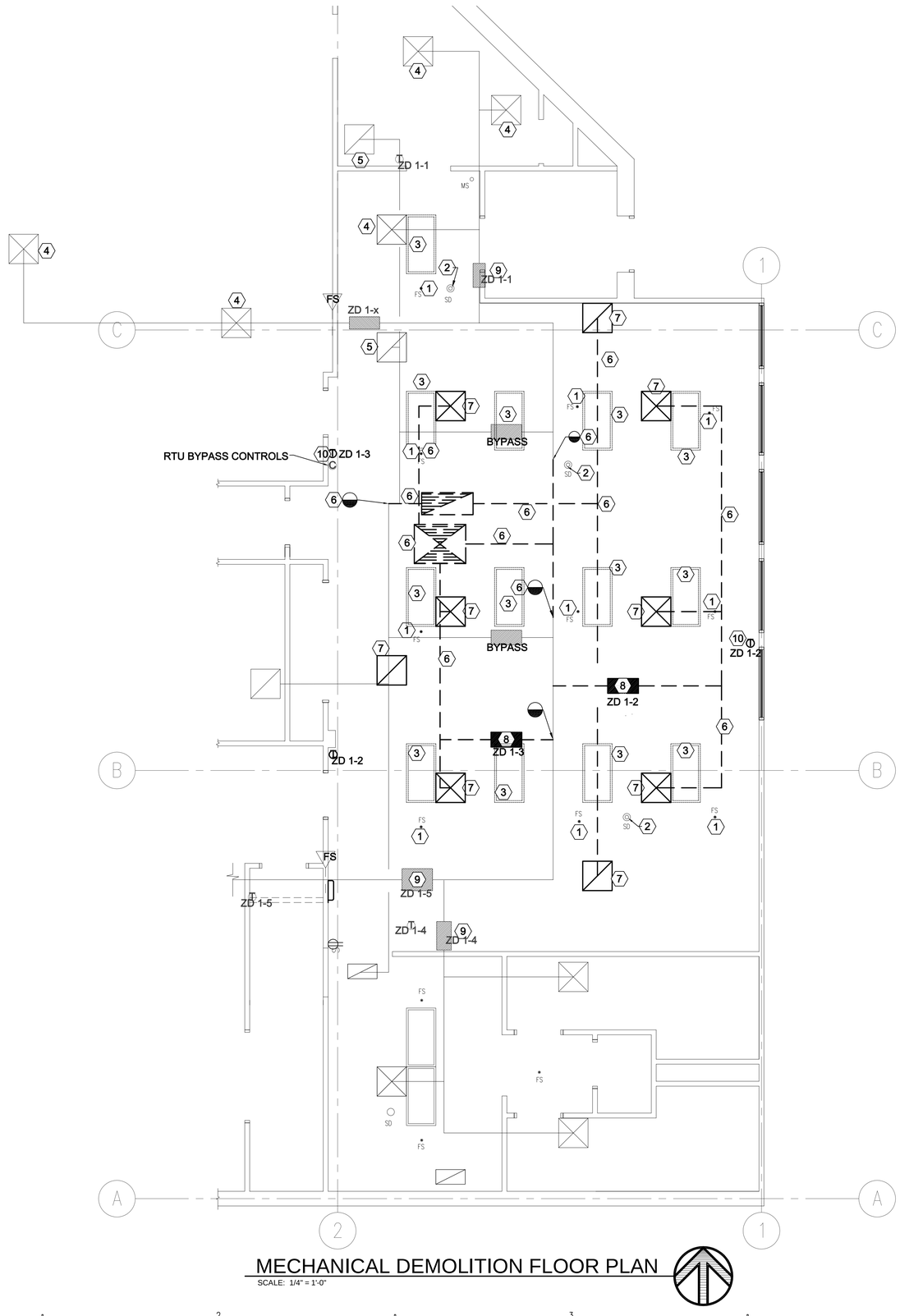
PROFESSIONAL ENGINEER 01/22/08 WINWARD M. PACKER No. 375080 STATE OF UTAH

SHEET TITLE

MECHANICAL GENERAL NOTES AND LEGEND

SHEET NO.

MG001

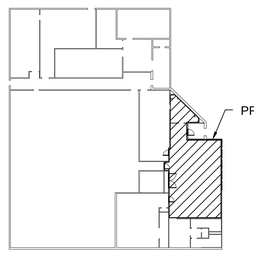


MECHANICAL DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. EXISTING SPRINKLER HEAD.
2. EXISTING SMOKE DETECTOR.
3. EXISTING 2'x4' FLOURESCENT LAY-IN LIGHT
4. EXISTING CEILING DIFFUSER.
5. EXISTING CEILING RETURN AIR GRILLE.
6. DEMO DUCTWORK AS SHOWN.
7. DEMO DIFFUSER / GRILLE AS SHOWN
8. DEMO ZONE DAMPER
9. EXISTING ZONE DAMPER
10. DEMO ZONE THERMOSTAT



KEY PLAN

SCALE: NONE

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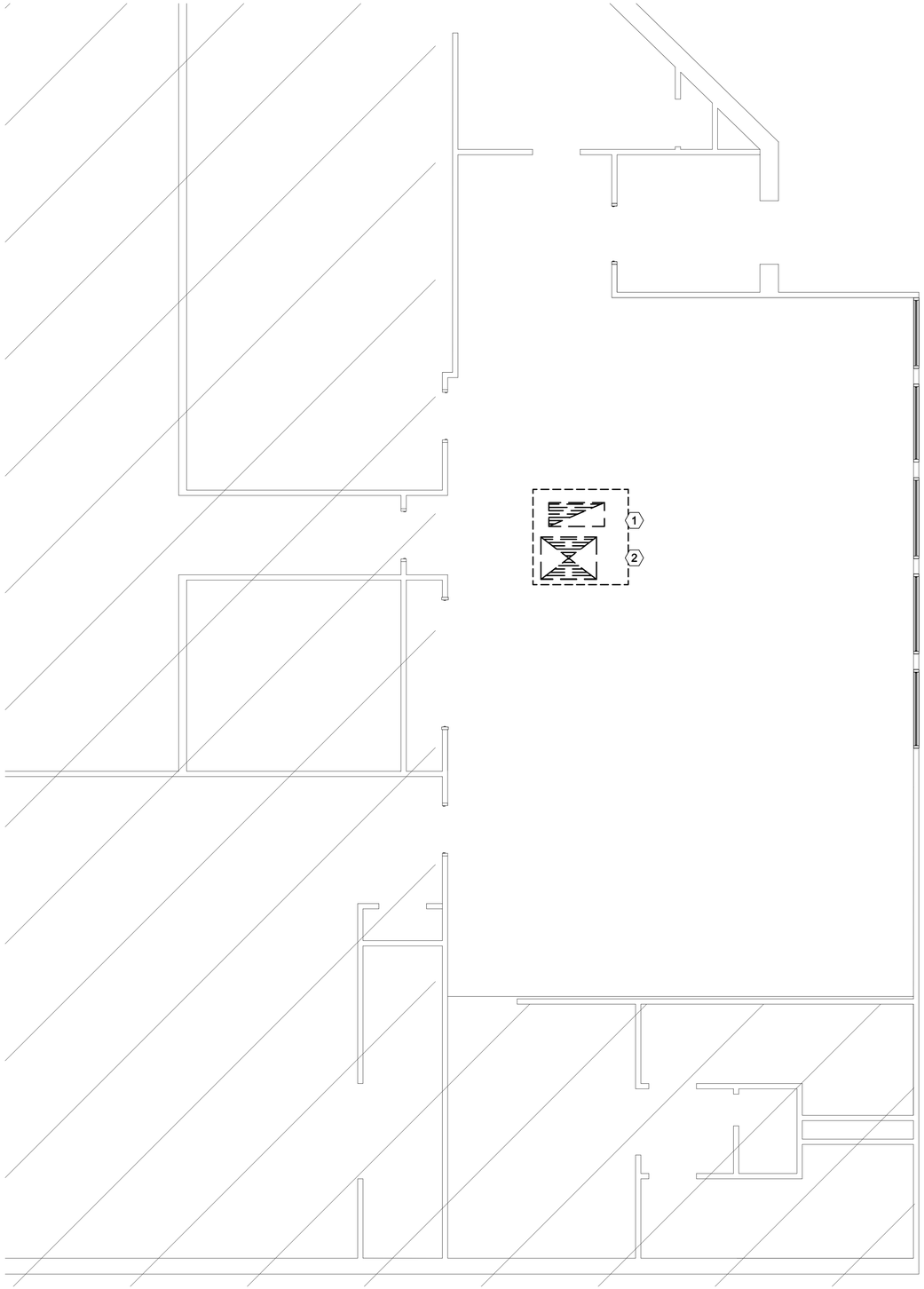
PROFESSIONAL ENGINEER 01/22/08 WINWARD M. PACKER No. 375080 STATE OF UTAH

SHEET TITLE

MECHANICAL DEMOLITION FLOOR PLAN

SHEET NO.

MD101

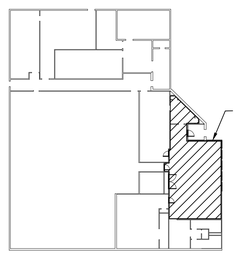


MECHANICAL DEMOLITION ROOF PLAN

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. DEMO ROOF TOP UNIT AND ASSOCIATED DUCT WORK AS SHOWN.
2. EXISTING CURB TO REMAIN.



KEY PLAN

SCALE: NONE

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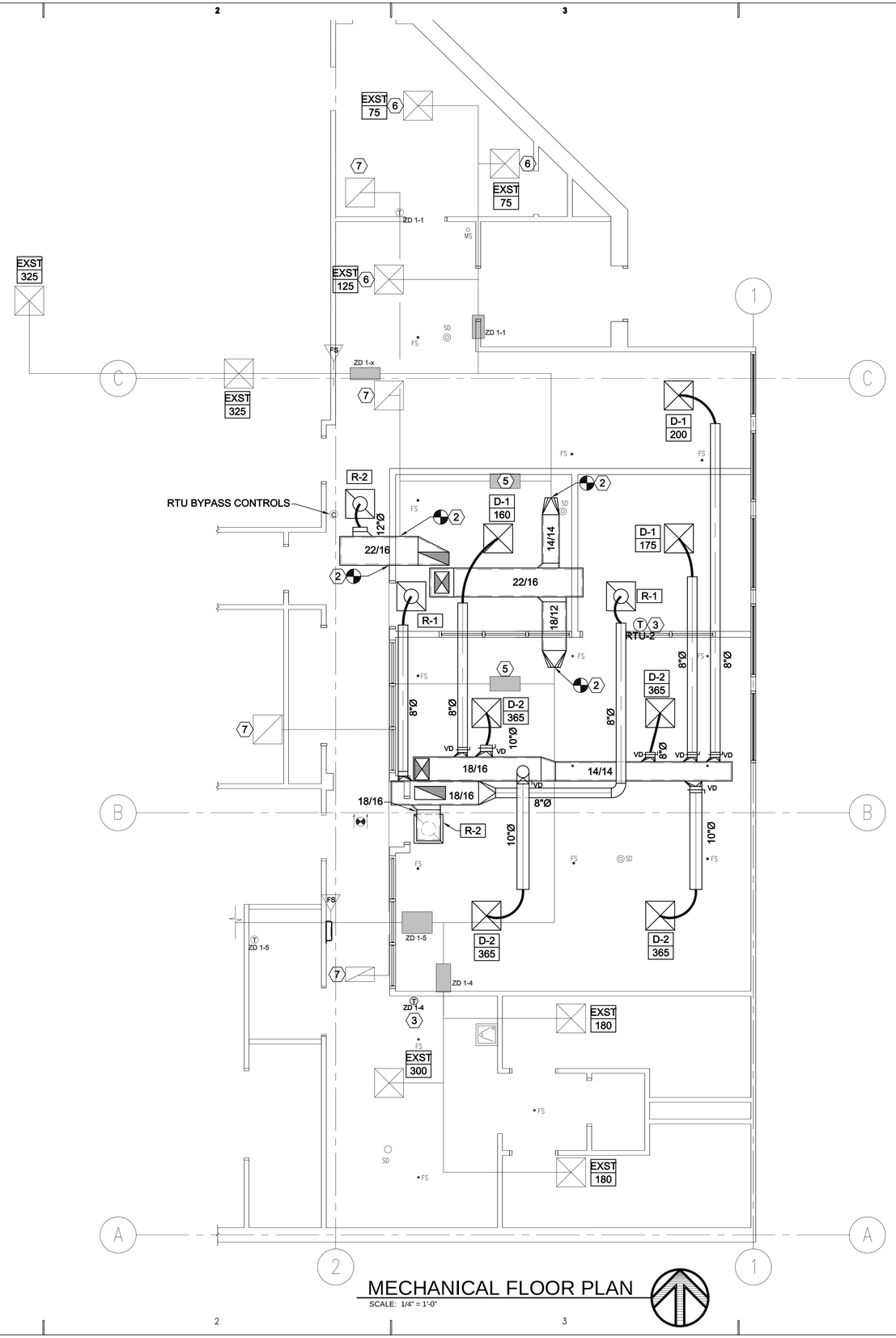
01/22/08
WINWARD M. PACKER
No. 375080
STATE OF UTAH

SHEET TITLE

MECHANICAL DEMOLITION ROOF PLAN

SHEET NO.

MD102

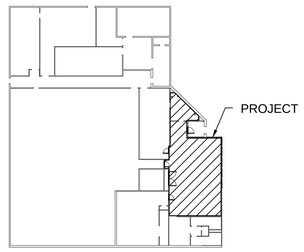


MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. TIE NEW RTU INTO EXISTING VVT BOX.
2. FIELD VERIFY EXACT POINT OF RE-CONNECTION.
3. CONFIRM EXACT THERMOSTAT PLACEMENT WITH OWNER.
4. EXISTING BYPASS DAMPER TO REMAIN. TIE INTO NEW ROOF TOP UNIT.
5. EXISTING BYPASS TO REMAIN.
6. EXISTING GRILLE TO REMAIN. PROVIDE VOLUME DAMPER IF EXISTING IS IN OPERABLE OR NOT IN PLACE.
7. EXISTING GRILLE TO REMAIN.



KEY PLAN

SCALE: NONE

State of Utah
Department of Administrative Services

Division of Facilities
Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267

Internet: http://www.dfcm.state.ut.us

CONSULTANTS

WHW
ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whw-engineering.com

PROJECT NAME & ADDRESS

DEPARTMENT OF SAFETY RICHFIELD ITS UHP DISPATCH MODIFICATION

DFCM No. 06298550

Richfield, Utah 84701

MARK	DATE	REVISION

PROJECT MANAGER: WP
DRAWN BY: STAFF
CHECKED BY: SLW
DATE: 01/22/08
WHW JOB NO.: 06054

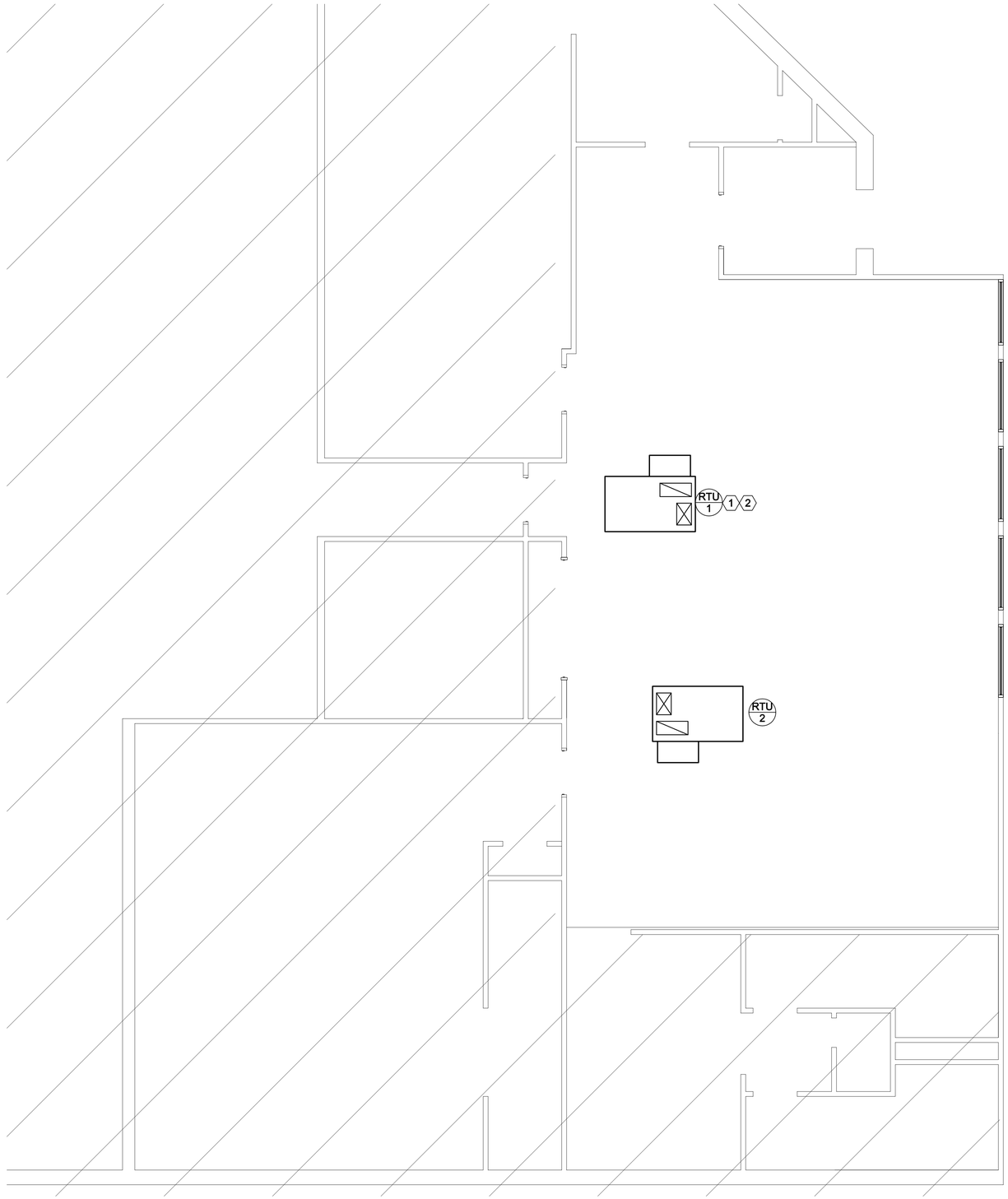
PROFESSIONAL ENGINEER
01/22/08
WINWARD M. PACKER
No. 375080
STATE OF UTAH

SHEET TITLE

MECHANICAL FLOOR PLAN

SHEET NO.

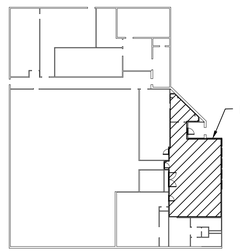
ME101



MECHANICAL ROOF PLAN
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. PROVIDE ADAPTER CURB TO TIE NEW ROOF TOP UNIT INTO EXISTING ROOF CURB.
2. PROVIDE VVT CONTROLS TO COMMUNICATE WITH EXISTING SYSTEM IN PLACE.



KEY PLAN
SCALE: NONE

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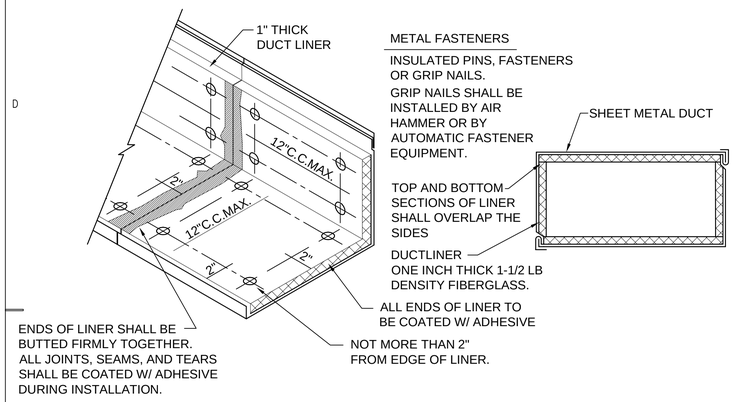
PROFESSIONAL ENGINEER
01/22/08
WINWARD M. PACKER
No. 375080
STATE OF UTAH

SHEET TITLE

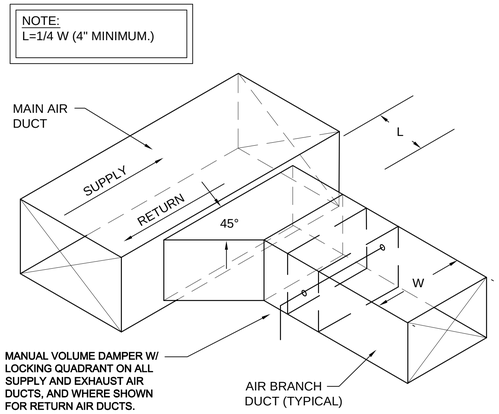
MECHANICAL ROOF PLAN

SHEET NO.

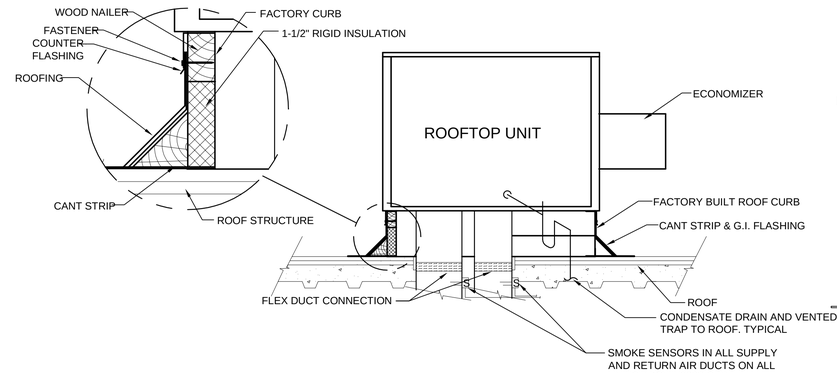
ME102



C1 DUCT LINER DETAIL
SCALE: NONE



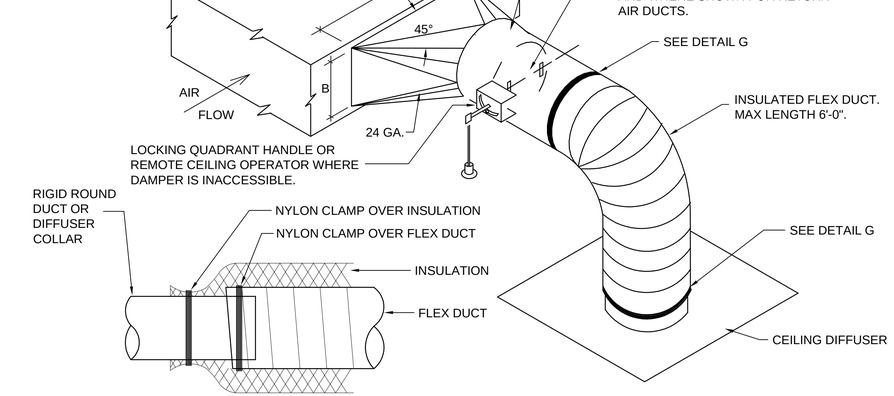
C3 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
SCALE: NONE



C4 ROOFTOP UNIT DETAIL
SCALE: NONE

B1 FLEXIBLE DUCT SUPPORT DETAIL
SCALE: NONE

B3 ROUND-TO-ROUND DUCT CONSTRUCTION DETAIL
SCALE: NONE



DETAIL G
SCALE: NONE

B5 SQUARE-TO-ROUND TAKE-OFF DETAIL
SCALE: NONE

A1 ROUND DUCT SUPPORT DETAIL
SCALE: NONE

A3 DUCT STRAP HANGER DETAIL
SCALE: NONE

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PROFESSIONAL MECHANICAL ENGINEERING
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DFCM No. 06298550

Richfield, Utah 84701

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PROJECT MANAGER: WP
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DATE: 01/22/08
WHW JOB NO.: 06054

PROFESSIONAL ENGINEER 01/22/08 WINWARD M. PACKER No. 375080 STATE OF UTAH

SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
ME501

DIFFUSER SCHEDULE

SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
D-1 / CFM	CEILING	200	9X9	8"Ø	LAY-IN	4--WAY		1,2,3
D-2 / CFM	CEILING	380	12X12	10"Ø	LAY-IN	4--WAY		1,2,3

1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.
2. MAXIMUM NC 25 AT CFM LISTED.
3. TRANSITION AS REQUIRED TO DUCT WORK SHOWN ON PLAN.
4. FINISH SHALL BE STANDARD WHITE BAKED ENAMEL.

REGISTER, LOUVER & GRILLE SCHEDULE

SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
R-1	CEILING	RETURN	180	8/8	8/8	LAY-IN	1,2,3,4
R-2	CEILING	RETURN	1460	22/22	22/22	LAY-IN	1,2,3,4

REGISTER. LOUVER AND DIFFUSER SCHEDULE NOTES:

1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
2. SHALL BE PRICE 535 OR EQUAL BY OTHER APPROVED MANUFACTURERS.
3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
4. FINISH SHALL BE STANDARD WHITE BAKED ENAMEL.
5. FINISH TO BE SPECIFIED BY ARCH

VVT BYPASS BOX SCHEDULE

SYMBOL	INLET DIA. (INCHES)	CFM		NC LEVEL	MANUF. MODEL #	SCHEDULE NOTES
		MAX	MIN			
BYPASS RT-1	22/16	2400	0	30	DAMPER	1, 2

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
2. VVT BOXES SHALL BE CONTROLLED BY ROOFTOP UNIT. PROVIDE UPGRADED ROOFTOP CONTROLS PACKAGE, AS WELL AS ALL OTHER REQUIRED CONTROLS COMPONENTS, ACCESSORIES, ETC. AS PART OF VVT EQUIPMENT PACKAGE.

ROOFTOP AIR CONDITIONER SCHEDULE (ELECTRIC HEAT)

SYMBOL	MANUFACTURER & MODEL NUMBER	SA CFM	OSA CFM	E.S.P. IN W.G.	ELECTRIC HEATING		COOLING			ELECTRICAL						EER/ SEER	OPER. WT. (LBS)	COMMENTS	SCHEDULE NOTES
					KW	FLA	AMB. AIR (DB)	AMB. AIR (WB)	MIN. TOTAL MBH	V - Ø - Hz	COMPRESSOR #	COMPRESSOR TOTAL RLA	COMPRESSOR TOTAL LRA	MCA	MOCP				
RT 1	CARRIER 50HJ007	2400	600	.8	25.5	30.7	92	65	73	460-3-60	1	38	72	45.3	50	11 EER	800		1,2,3,4,5,6,7
RT 2	CARRIER 50HJ006	2000	500	.8	25.5	30.1	92	65	58	460-3-60	1	39	103	44.5	45	13 SEER	750		1,2,3,4,5,7

1. E.S. P. DOES NOT INCLUDE LOSSES THROUGH ACCESSORIES.
2. RATED MINIMUM INPUT AT SEA LEVEL.
3. PROVIDE ONE 15 AMP, 120 VOLT, DUPLEX GFCI SERVICE OUTLET. FACTORY INSTALLED, FIELD WIRED.
4. BELT DRIVE UNIT
5. ELECTRIC HEAT
6. PROVIDE VVT SYSTEM TO COMMUNICATE WITH EXISTING VARIABLE VOLUME BOXES.
7. PROVIDE HIGH STATIC MOTOR.

State of Utah
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CONSULTANTS

WHW ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whw-engineering.com

PROJECT NAME & ADDRESS

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DFCM No. 06298550

Richfield, Utah 84701

MARK	DATE	REVISION

PROJECT MANAGER: WP
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DATE: 01/22/08
WHW JOB NO.: 06054

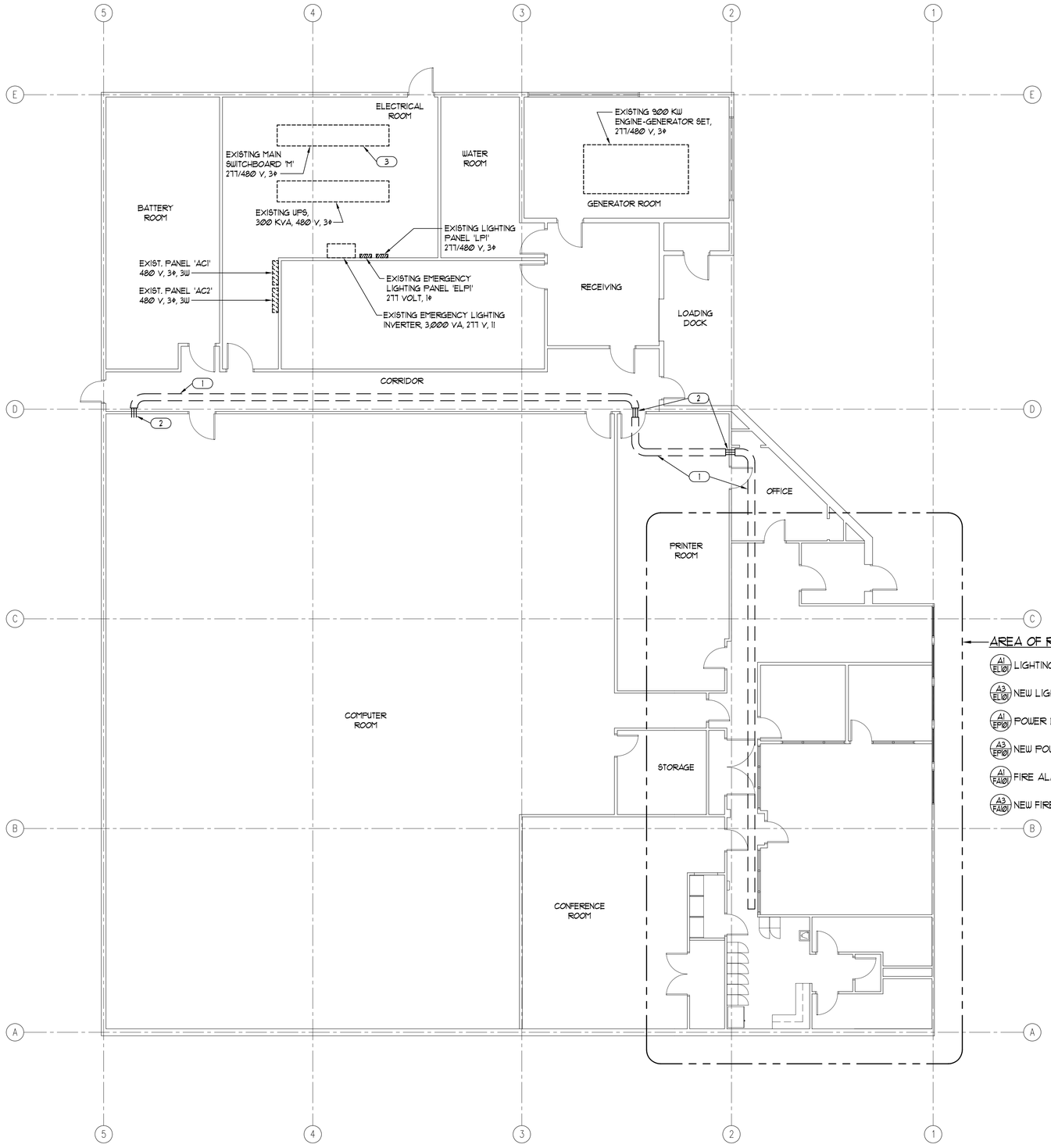
PROFESSIONAL ENGINEER 01/22/08 WINWARD M. PACKER No. 375080 STATE OF UTAH

SHEET TITLE

MECHANICAL SCHEDULES

SHEET NO.

ME601



A1 ELECTRICAL REFERENCE PLAN

SCALE: 1/8" = 1'-Ø" (0, 4', 8', 16')

NORTH

GENERAL ELECTRICAL NOTES:

1. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, LIGHTING, SWITCHES, OUTLETS, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON EXISTING BUILDING ELECTRICAL DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND CIRCUITING AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.
2. DEMOLITION PLANS ARE SHOWN FOR CONTRACTORS REFERENCE ONLY. FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED. REMOVE ALL ABANDONED WIRING, CONDUIT, BOXES, OUTLETS, FIXTURES, EQUIPMENT, ETC., WHETHER SPECIFICALLY SHOWN OR NOT.
3. CONTRACTOR MAY USE EXISTING BRANCH CIRCUIT WIRING AND RACEWAYS WHERE CONVENIENT TO CONNECT TO NEW ELECTRICAL DEVICES ONLY IF THE EXISTING WIRING AND RACEWAYS ARE IN GOOD CONDITION AND MEET DIVISION 16 SPECIFICATION REQUIREMENTS FOR NEW WIRING AND RACEWAYS.
4. WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT INTERRUPTS EXISTING BRANCH CIRCUITS OR FEEDERS TO EXISTING EQUIPMENT TO REMAIN, PROVIDE NEW CONDUIT AND WIRING AS REQUIRED TO RECONNECT THE EXISTING EQUIPMENT.
5. ALL MATERIALS AND EQUIPMENT REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR STORAGE OR BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE OWNER.
6. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.

KEYED NOTES:

(1) EXISTING 12" x 4" COMMUNICATION CABLE TRAY 11'-Ø"± ABOVE FLOOR (1'-Ø"± ABOVE CEILING WHERE OCCURS) TO REMAIN.

(2) EXISTING (3) 4" CONDUIT SLEEVES THROUGH FIRE RATED WALLS FOR COMMUNICATION CABLE TRAY TO REMAIN.

(3) PROVIDE NEW SIEMENS 3P-45A TYPE 'SHJD69045G' CIRCUIT BREAKER WITH GROUND FAULT PROTECTION AND ADJUSTABLE SOLID STATE TRIP, AND NECESSARY MOUNTING HARDWARE IN EXISTING MAIN SWITCHBOARD 'M' TO SERVE NEW ROOFTOP UNIT RTU2. PROVIDE NEW ENGRAVED NAMEPLATE TO IDENTIFY LOAD SERVED BY NEW BREAKER.

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4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
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CONSULTANTS

WHW ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whwengineering.com

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640
e-mail parchitects@comcast.net
ARCHITECTURE | PLANNING | DESIGN

ELECTRICAL
Thomas and Kolkman Engineering Co. Inc.
64 West 1700 South
Salt Lake City, Utah 84115
(801) 484-8161 Fax: (801) 484-3538

PROJECT NAME & ADDRESS

DEPARTMENT OF SAFETY RICHFIELD ITS UHP DISPATCH MODIFICATION

DFCM No. 06298550

Richfield, Utah 84701

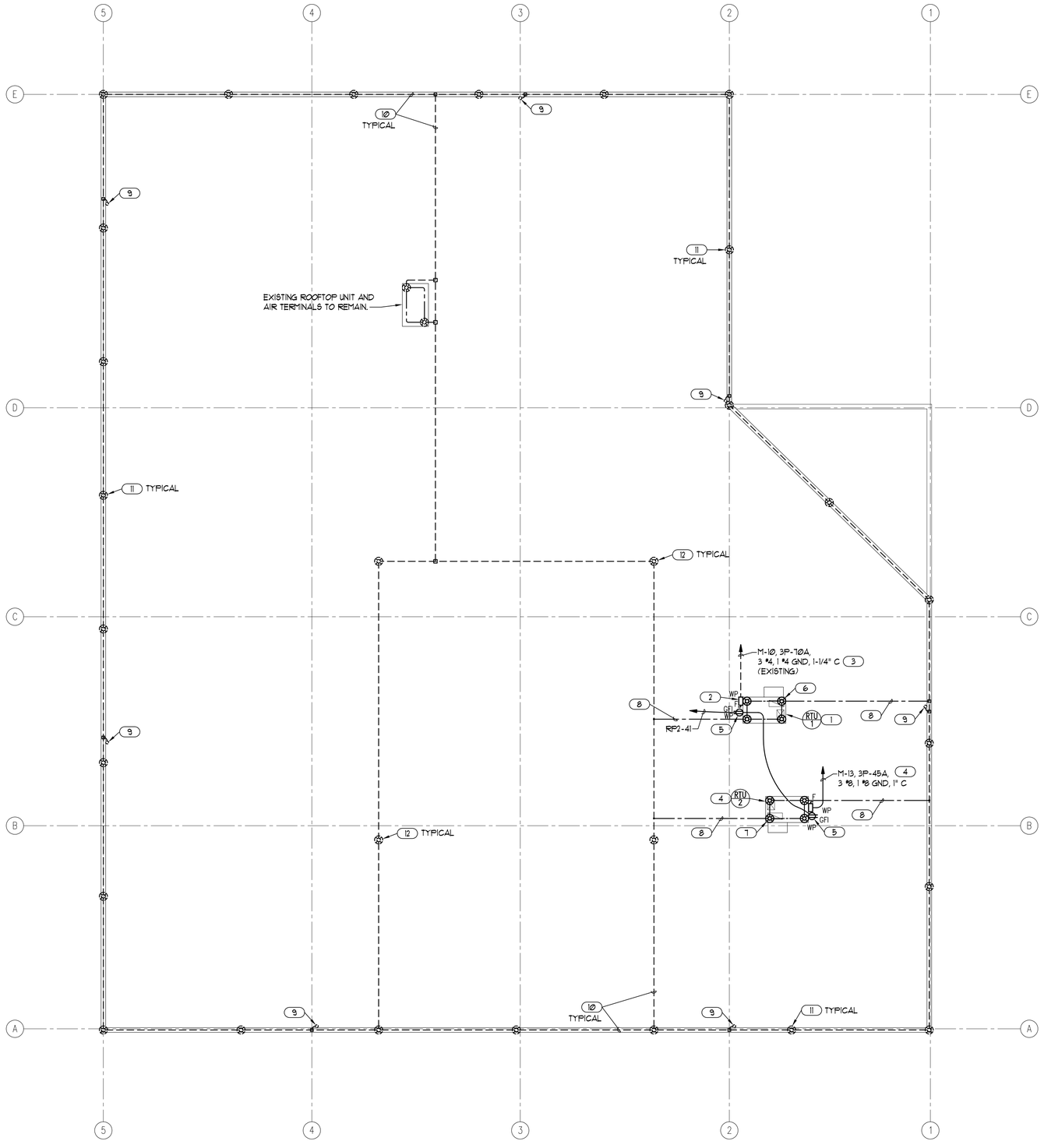
MARK	DATE	REVISION

PROJECT MANAGER: WP
DRAWN BY: W.B.G.
CHECKED BY: R.G.K.
DATE: 09/24/07
WHW JOB NO.: 06054

REGISTERED PROFESSIONAL ENGINEER — RAYMOND G. KOLKMAN — 175780 — STATE OF UTAH

SHEET TITLE: ELECTRICAL PLANS AND SCHEDULES

SHEET NO.: E-101



A1 ROOF ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

0 4' 8' 16'

NORTH

GENERAL NOTES:

1. SEE GENERAL ELECTRICAL NOTES, SHEET E-101.
2. ADDITIONS AND MODIFICATIONS TO THE EXISTING BUILDING LIGHTING PROTECTION SYSTEM SHALL BE INSTALLED UNDER THE SUPERVISION OF A U.L. CERTIFIED LIGHTING PROTECTION SYSTEM INSTALLER WHO WILL BE RESPONSIBLE FOR DETERMINING FINAL LOCATIONS AND QUANTITY OF AIR TERMINALS, BONDING REQUIREMENTS, ETC., TO PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780-2004, STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS.
3. EXISTING AIR TERMINALS AND BONDING CONNECTIONS TO EXISTING ROOFTOP EQUIPMENT NOT SHOWN ARE TO REMAIN.
4. ADHESIVE USED WITH ADHESIVE TYPE AIR TERMINAL BASES AND ROOF CONDUCTOR FASTENERS SHALL BE COMPATIBLE WITH THE EXISTING ROOFING MEMBRANE, VERIFY WITH ROOFING CONTRACTOR PRIOR TO INSTALLATION.

KEYED NOTES:

(1) NEW ROOFTOP UNIT RTU1 TO REPLACE EXISTING ROOFTOP UNIT. SEE MECHANICAL PLANS.

(2) REMOVE EXISTING SAFETY SWITCH FOR EXISTING ROOFTOP UNIT TO BE REMOVED. PROVIDE NEW 3P-60A SAFETY SWITCH WITH 50 AMPERE FUSES, OR FUSE RATING AS REQUIRED TO MATCH "MAXIMUM OVERCURRENT PROTECTION" RATING ON NEW ROOFTOP UNIT NAMEPLATE.

(3) EXISTING FEEDER TO REMAIN FROM MAIN SWITCHBOARD 'M' TO EXISTING ROOFTOP UNIT. RECONNECT TO NEW FUSED SAFETY SWITCH AS INDICATED.

(4) NEW ROOFTOP UNIT, SEE MECHANICAL PLANS. PROVIDE COMPLETE NEW ELECTRICAL SERVICE AS INDICATED.

(5) REPLACE 15 AMPERE RECEPTACLES FURNISHED WITH NEW ROOFTOP UNITS WITH NEW 20 AMPERE (NEMA 5-20) GFCI RECEPTACLES AND CONNECT TO NEW CIRCUIT AS INDICATED. REPLACE FLIP LID WEATHERPROOF RECEPTACLE COVERS WITH NEW "RAINTIGHT WHILE IN USE" RECEPTACLE COVERS.

(6) RELOCATE EXISTING 1/2" x 12" HIGH AIR TERMINALS FROM EXISTING ROOFTOP UNIT TO NEW ROOFTOP UNIT RTU1. PROVIDE NEW ROOF CONDUCTORS AS REQUIRED TO RECONNECT TO EXISTING ROOF CONDUCTORS AS INDICATED.

(7) PROVIDE NEW 1/2" x 12" HIGH AIR TERMINALS ON NEW ROOFTOP UNIT RTU2 COMPLETE NEW ROOF CONDUCTORS AND CONNECTIONS TO EXISTING ROOF CONDUCTORS AS INDICATED.

(8) NEW 28 STRANDS OF 14 GAUGE BARE ALUMINUM BRAIDED CABLE, EXPOSED ON ROOF OR ROOFTOP EQUIPMENT AS SHOWN. SECURE WITH ADHESIVE TYPE CABLE HOLDERS AT 3'-0" ON CENTER.

(9) EXISTING LIGHTNING PROTECTION SYSTEM CONCEALED DOWN CONDUCTOR TO GROUND GRID TO REMAIN.

(10) EXISTING 28 STRANDS OF 14 GAUGE BARE ALUMINUM BRAIDED ROOF CONDUCTORS, EXPOSED ON EXISTING ROOF TO REMAIN.

(11) EXISTING 1/2" x 12" ALUMINUM ROOF PERIMETER AIR TERMINALS TO REMAIN.

(12) EXISTING 1/2" x 24" ALUMINUM ROOF AIR TERMINALS TO REMAIN.

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P+A architects
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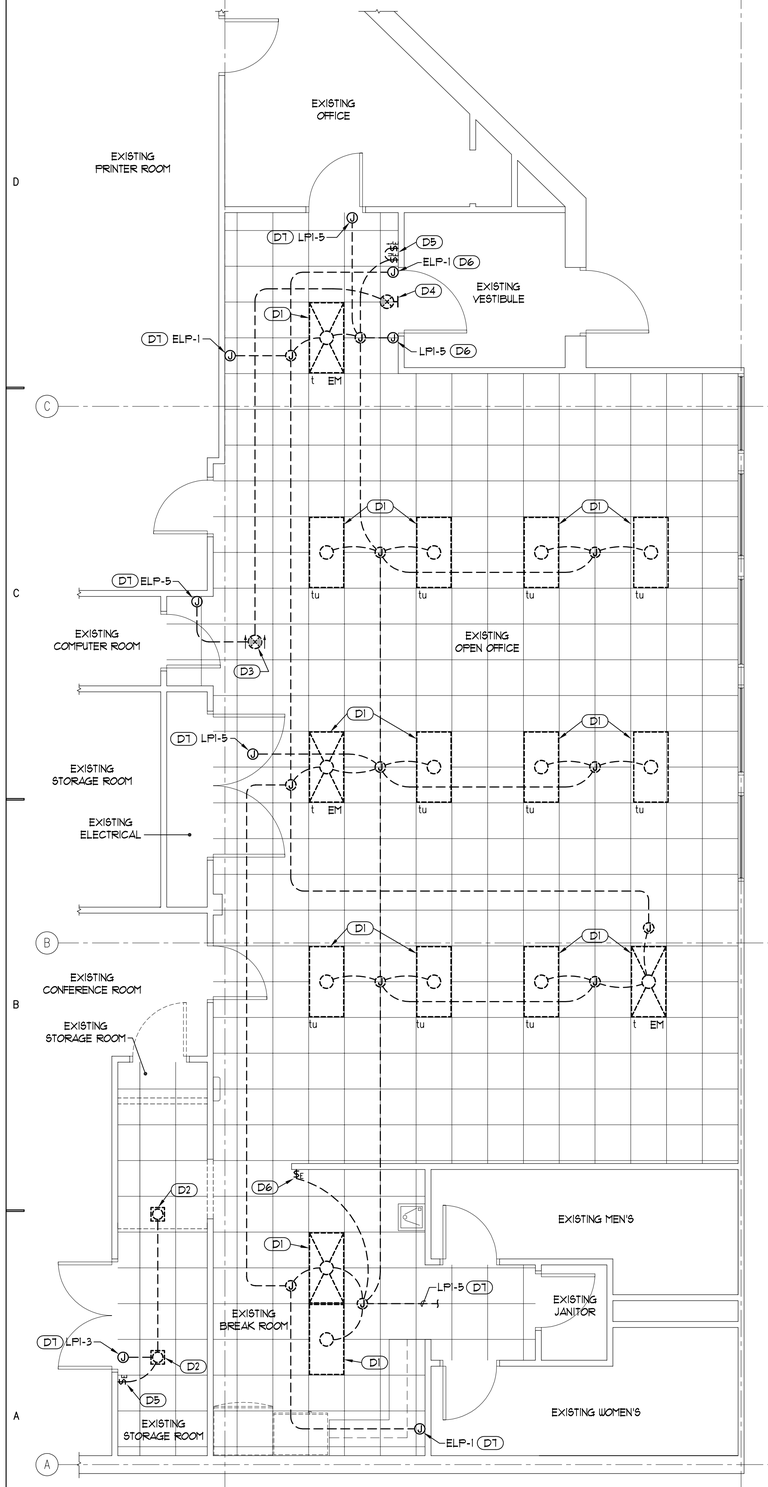
REGISTERED PROFESSIONAL ENGINEER
RAYMOND G. KOLKMAN
175780
STATE OF UTAH

SHEET TITLE
ROOF ELECTRICAL PLAN

SHEET NO.
E-102

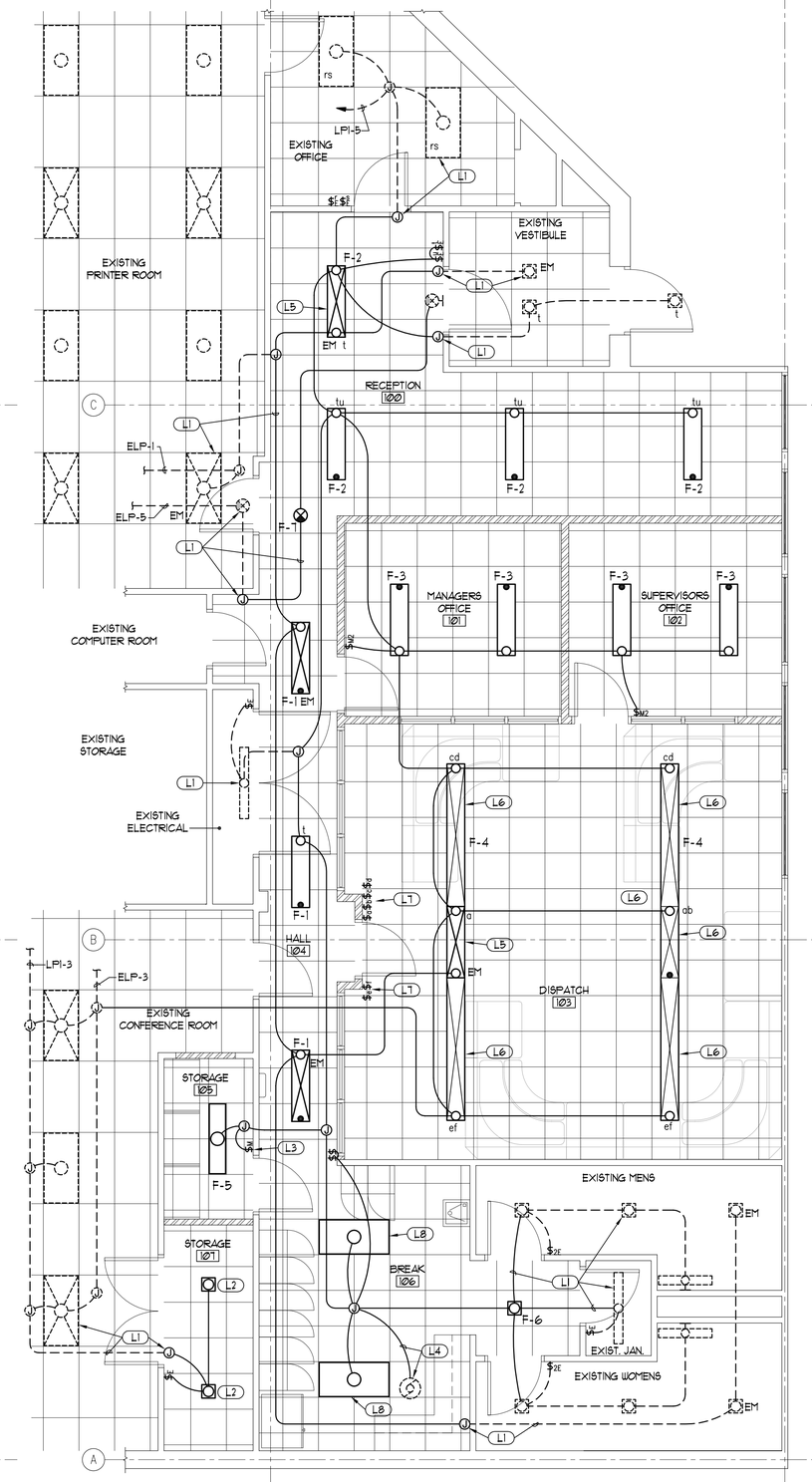


A1 LIGHTING DEMOLITON PLAN

SCALE: 1/4" = 1'-Ø"

0 2' 4' 8'

NORTH



A3 NEW LIGHTING PLAN

SCALE: 1/4" = 1'-Ø"

0 2' 4' 8'

NORTH

GENERAL NOTES:

1. SEE GENERAL ELECTRICAL NOTES, SHEET E-Ø1.
2. COORDINATE FIXTURE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, CEILING CONTRACTOR, BUILDING STRUCTURE, MECHANICAL EQUIPMENT & DUCTWORK LOCATIONS, ETC.
3. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.

LIGHTING DEMOLITON PLAN KEYED NOTES:

- D1 REMOVE EXISTING 2' x 4', 3 LAMP, FLOURESCENT PARABOBIC TROFFER INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, SUPPORTS, ETC.. SALVAGE 2 EXISTING FIXTURES IN GOOD CONDITION FOR RELOCATION TO BREAK ROOM AS SHOWN ON NEW LIGHTING PLAN.
- D2 REMOVE EXISTING RECESSED COMPACT FLUORESCENT DOWNLIGHT INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.. SALVAGE EXISTING FIXTURE FOR RELOCATION TO NEW CEILING AS SHOWN ON NEW LIGHTING PLAN.
- D3 REMOVE EXISTING CEILING MOUNTED EXIT LIGHT INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, ETC..
- D4 EXISTING WALL MOUNTED LED EXIT LIGHT TO REMAIN. RECONNECT EXISTING CIRCUIT AS SHOWN ON NEW LIGHTING PLAN.
- D5 EXISTING SWITCHES TO REMAIN. RECONNECT TO CONTROL NEW FIXTURES AS SHOWN ON NEW LIGHTING PLAN.
- D6 REMOVE EXISTING SWITCH COMPLETE INCLUDING OUTLET BOX, WIRING, ACCESSIBLE CONDUIT, ETC.. REPAIR EXISTING WALL AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW LOCKERS, SEE ARCHITECT'S PLANS.
- D7 INTERCEPT EXISTING BRANCH CIRCUIT TO ADJACENT ROOMS IN NEW JUNCTION BOX AS REQUIRED TO RECONNECT EXISTING CIRCUITS AS SHOWN ON NEW LIGHTING PLAN.

NEW LIGHTING PLAN KEYED NOTES:

- L1 EXISTING LIGHTING, CIRCUIT, SWITCHES, ETC., IN ADJACENT ROOM S TO REMAIN. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AS INDICATED.
- L2 INSTALL RECESSED COMPACT FLUORESCENT FIXTURE SALVAGED FROM DEMOLITION. RECONNECT EXISTING SWITCH AND CIRCUIT AS INDICATED. CLEAN FIXTURE, RELAMP WITH 2 NEW F13TT/35K LAMPS, AND LEAVE IN PROPER WORKING ORDER.
- L3 CUT EXISTING GYPBOARD WALL AS REQUIRED TO INSTALL NEW FLUSH MOUNTED OUTLET BOX AND CONCEALED CONDUIT FOR NEW SWITCH. REPAIR EXISTING WALL AS REQUIRED.
- L4 RECONNECT EXISTING ROOF MOUNTED EXHAUST FAN TO BE CONTROLLED BY NEW SWITCH FOR OUTBOARD LAMPS OF NEW F-2 FIXTURES. EXHAUST FAN IS CONNECTED THROUGH A 2T1-12Ø VOLT STEP DOUN TRANSFORMER - FIELD VERIFY EXISTING CONDITIONS.
- L5 CONNECT ONE INBOARD LAMP OF "EM" FIXTURES TO THE UNSWITCHED EMERGENCY LIGHTING CIRCUIT 'ELP-1'. CIRCUIT AND SWITCH TWO OUTBOARD LAMPS WITH GENERAL ROOM LIGHTING.
- L6 CONNECT ONE INBOARD LAMP OF FIXTURES NOTED TO THE SWITCHED EMERGENCY LIGHT CIRCUIT 'ELP-3'. CIRCUIT AND SWITCH TWO OUTBOARD LAMPS WITH GENERAL ROOM LIGHTING.
- L7 PROVIDE APPROVED BARRIER BETWEEN GANGED SWITCHES WHERE VOLTAGE BETWEEN ADJACENT SWITCHES EXCEEDS 3ØØ VOLTS IN ACCORDANCE WITH NEC ARTICLE 4Ø4.8 (B).
- L8 INSTALL 2' x 4', 3 LAMP LAY-IN PARABOLIC FLUORESCENT FIXTURE SALVAGED FROM DEMOLITION AND CONNECT AS INDICATED. CLEAN FIXTURE, RELAMP WITH NEW F32T8/TL835 LAMPS, AND LEAVE IN PROPER WORKING ORDER.

State of Utah
Department of Administrative Services
Division of Facilities Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://www.dfcm.state.ut.us

CONSULTANTS

WHW ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whwengineering.com

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640
e-mail parchitects@comcast.net
ARCHITECTURE | PLANNING | DESIGN

ELECTRICAL
Thomas and Kolkman Engineering Co. Inc.
64 West 1700 South
Salt Lake City, Utah 84115
(801) 484-8161 Fax: (801) 484-3538

PROJECT NAME & ADDRESS

DEPARTMENT OF SAFETY RICHFIELD ITS UHP DISPATCH MODIFICATION

DFCM No. 06298550

Richfield, Utah 84701

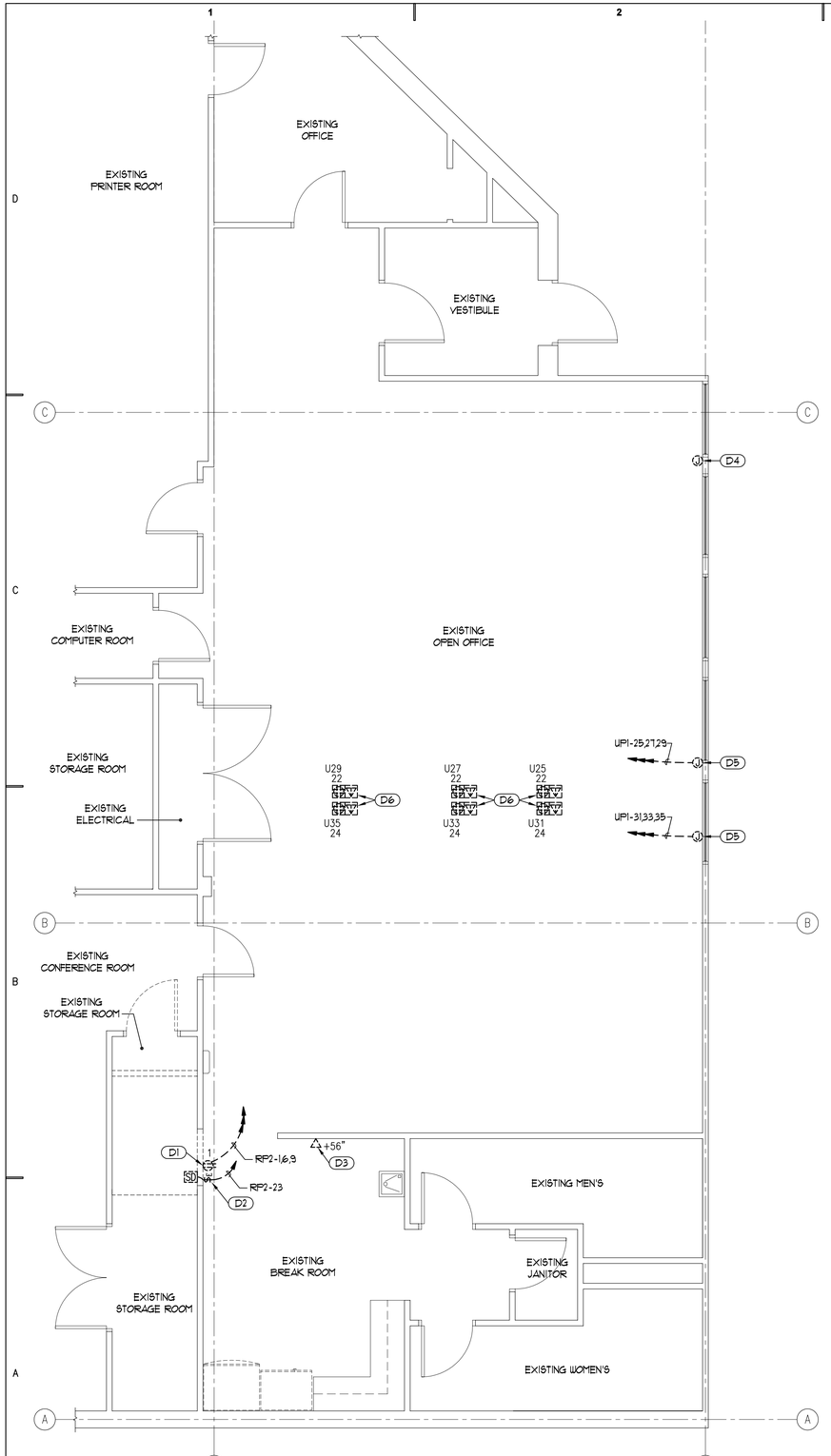
MARK	DATE	REVISION

PROJECT MANAGER: WP
DRAWN BY: W.B.G.
CHECKED BY: R.G.K.
DATE: 09/24/07
WHW JOB NO.: 06054

REGISTERED PROFESSIONAL ENGINEER
RAYMOND G. KOLKMAN
175780
STATE OF UTAH

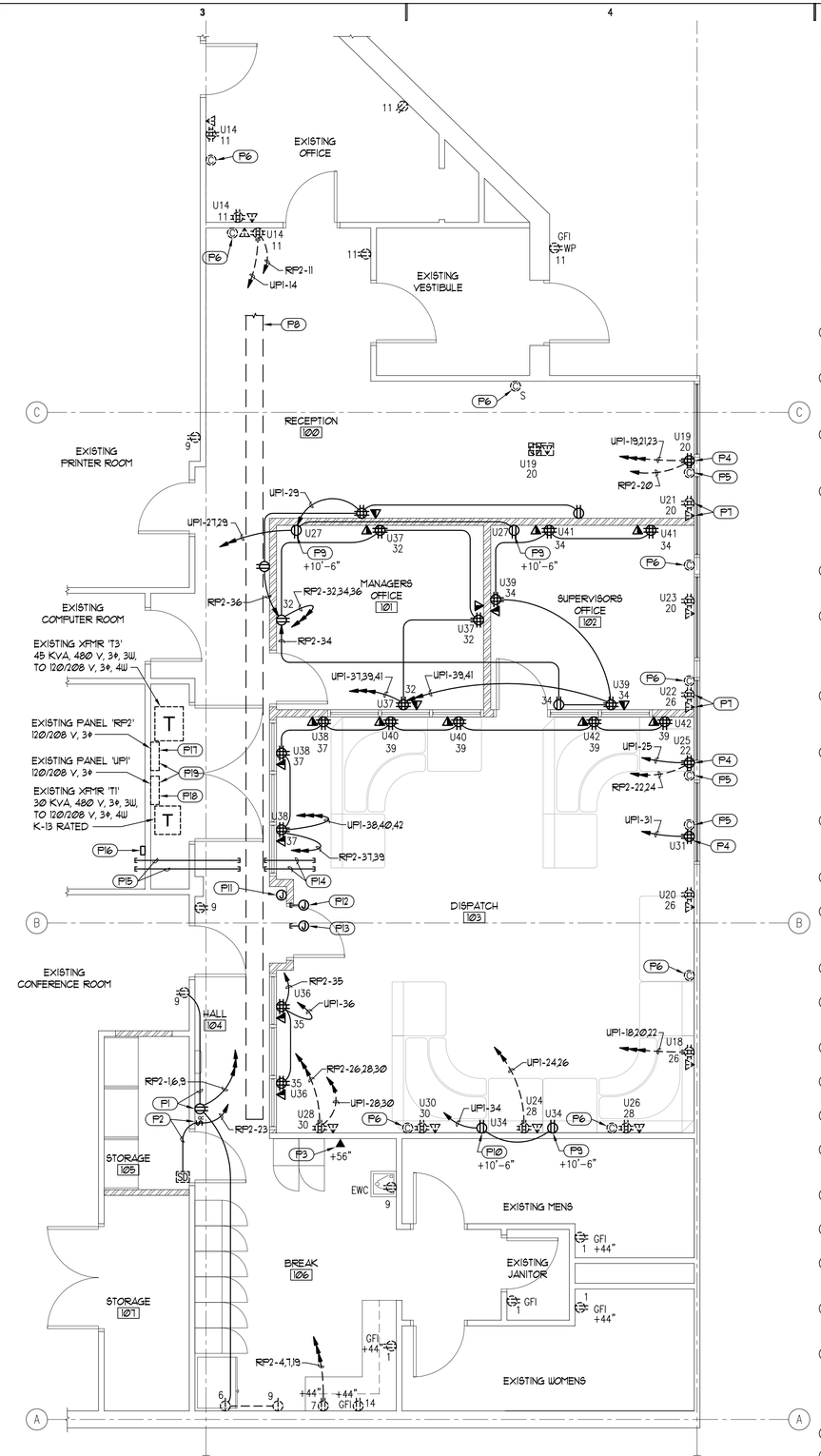
SHEET TITLE
LIGHTING PLANS

SHEET NO.
EL101



A1 POWER DEMOLITON PLAN

SCALE: 1/4" = 1'-0"



A3 NEW POWER PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SEE GENERAL ELECTRICAL NOTES, SHEET E-101.
2. FIELD COORDINATE LOCATION OF ALL NEW RECEPTACLES AND OUTLETS WITH OWNER'S FURNITURE LOCATIONS PRIOR TO ROUGHING IN.
3. PROVIDE ISOLATED GROUND RECEPTACLES FOR ALL RECEPTACLES SERVED FROM PANEL 'UP1'.
4. PROVIDE A SEPARATE NEUTRAL FOR EACH NEW RECEPTACLE BRANCH CIRCUIT SHOWN FROM PANEL 'UP1' AND PANEL 'RP2'.
5. PROVIDE AN INSULATED GREEN WITH YELLOW STRIPE GROUND CONDUCTOR IN EACH BRANCH CIRCUIT CONDUIT FROM PANEL 'UP1' AND CONNECT TO THE GROUND TERMINAL OF ISOLATED GROUND RECEPTACLES. PROVIDE ADDITIONAL SAFETY GROUND IN ACCORDANCE WITH NEC ARTICLE 250-146 (d), FINE PRINT NOTE.
6. PROVIDE AN INSULATED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS.

POWER DEMOLITON PLAN KEYED NOTES:

(D1) REMOVE EXISTING RECEPTACLE INCLUDING ALL WIRING, CONDUIT, BOXES, SUPPORTS, ETC., AS REQUIRED TO ALLOW INSTALLATION OF NEW DOOR. RECONNECT EXISTING CIRCUITS AS SHOWN ON NEW POWER PLAN.

(D2) REMOVE AND SALVAGE EXISTING SWITCH FOR SMOKE DAMPER INCLUDING ALL WIRING, CONDUIT, BOXES, SUPPORTS, ETC., AS REQUIRED TO ALLOW INSTALLATION OF NEW DOOR. RECONNECT EXISTING CIRCUIT AND SMOKE DAMPER AS SHOWN ON NEW POWER PLAN.

(D3) REMOVE EXISTING WALL TELEPHONE OUTLET COMPLETE INCLUDING OUTLET BOX, WIRING, ACCESSIBLE CONDUIT, ETC. REPAIR EXISTING WALL AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW LOCKERS, SEE ARCHITECT'S PLANS.

(D4) EXISTING POWER OUTLET BOX FOR OFFICE FURNISHINGS CONNECTION TO REMAIN. REMOVE EXISTING CONNECTION TO OFFICE FURNISHINGS. REPLACE EXISTING SINGLE GANG PLASTER RING WITH NEW DOUBLE GANG PLASTER FOR INSTALLATION OF NEW DOUBLE DUPLEX RECEPTACLE AS SHOWN ON NEW POWER PLAN. REPAIR EXISTING WALL AS REQUIRED TO MATCH SURROUNDING SURFACES.

(D5) REMOVE EXISTING BRANCH CIRCUIT WIRING TO EXISTING PANEL 'UP1'. EXISTING CONDUIT TO REMAIN FOR INSTALLATION OF NEW WIRING SHOWN ON NEW POWER PLAN.

(D6) REMOVE EXISTING DEVICES AND ALL WIRING FROM EXISTING FLOOR OUTLET BOXES AND ABANDON FLOOR BOXES IN PLACE. PROVIDE NEW BLANK COVERPLATE TO BE COVERED BY NEW CARPET.

NEW POWER PLAN KEYED NOTES:

(P1) CUT EXISTING GYPBOARD WALL AS REQUIRED TO INSTALL NEW FLUSH MOUNTED OUTLET BOX AND CONCEALED CONDUIT FOR NEW RECEPTACLE. REPAIR EXISTING WALL AS REQUIRED. PROVIDE NEW CONDUIT AND WIRING AS REQUIRED TO RECONNECT EXISTING BRANCH CIRCUITS AS INDICATED.

(P2) CUT EXISTING GYPBOARD WALL AS REQUIRED TO INSTALL NEW FLUSH MOUNTED OUTLET BOX AND CONCEALED CONDUIT FOR RELOCATED SMOKE DAMPER SWITCH. REPAIR EXISTING WALL AS REQUIRED. PROVIDE NEW CONDUIT AND WIRING AS REQUIRED TO RECONNECT EXISTING BRANCH CIRCUIT AND EXISTING SMOKE DAMPER AS INDICATED.

(P3) CUT EXISTING GYPBOARD WALL AS REQUIRED TO INSTALL NEW FLUSH MOUNTED WALL TELEPHONE OUTLET AND CONCEALED 3/4" CONDUIT TO EXISTING COMMUNICATION CABLE TRAY. REPAIR EXISTING WALL AS REQUIRED.

(P4) PROVIDE NEW DOUBLE DUPLEX RECEPTACLE IN EXISTING OFFICE FURNISHING OUTLET BOX AND CONNECT TO EXISTING CIRCUITS INDICATED.

(P5) EXISTING TELE/DATA OUTLET BOX WITH 1" CONDUIT TO COMMUNICATION CABLE TRAY FOR OFFICE FURNISHINGS TO REMAIN. REMOVE CONNECTIONS TO OFFICE FURNISHINGS INCLUDING ABANDONED CABLES TO POINT OF ORGIN. PROVIDE NEW BLANK COVERPLATE.

(P6) EXISTING TELE/DATA OUTLET BOX WITH 1" CONDUIT TO COMMUNICATION CABLE TRAY TO REMAIN. SEE SHEET E-101 FOR CONTINUATION.

(P7) FIELD VERIFY EXACT LOCATION OF EXISTING OUTLETS NEAR NEW WALLS. RELOCATE OR REMOVE OUTLETS AS REQUIRED TO ALLOW INSTALLATION OF NEW WALL AND PROVIDE ACCESS TO OUTLET BOXES.

(P8) EXISTING 12" x 4" COMMUNICATION CABLE TRAY 11'-0"± ABOVE FLOOR (1'-0"± ABOVE CEILING) TO REMAIN.

(P9) NEW RECEPTACLE 6"± ABOVE NEW CEILING FOR BUILDING SECURITY SYSTEM MONITOR. VERIFY EXACT LOCATION WITH OWNER.

(P10) NEW RECEPTACLE 6"± ABOVE NEW CEILING FOR 52" TV MONITOR. VERIFY EXACT LOCATION WITH OWNER.

(P11) PROVIDE OUTLET BOX WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE FOR NEW SECURITY SYSTEM CARD READER. VERIFY REQUIREMENTS WITH OWNER'S SECURITY SYSTEM VENDOR.

(P12) PROVIDE 1/2" CONDUIT STUB FROM DOOR JAMB TO ACCESSIBLE CEILING SPACE FOR NEW SECURITY SYSTEM ELECTRIC DOOR STRIKE.

(P13) PROVIDE 1/2" CONDUIT STUB FROM DOOR HEADER TO ACCESSIBLE CEILING SPACE FOR NEW SECURITY SYSTEM MAGNETIC DOOR CONTACTS.

(P14) PROVIDE (2) 3" CONDUITS FROM EXISTING CABLE TRAY TO ACCESSIBLE CEILING SPACE OF DISPATCH ROOM. TERMINATE CONDUITS WITH GROUNDING BUSHINGS AND BOND TO EXISTING CABLE TRAY.

(P15) PROVIDE (2) 3" CONDUITS FROM EXISTING CABLE TRAY TO ACCESSIBLE CEILING SPACE OF EXISTING STORAGE ROOM. TERMINATE CONDUITS WITH GROUNDING BUSHINGS AND BOND TO EXISTING CABLE TRAY.

(P16) PROVIDE NEW WIREMOLD V6000, OR EQUAL, SURFACE METAL RACEWAY FROM EXISTING STORAGE ROOM CEILING SPACE TO RAISED FLOOR SPACE. PROVIDE NEW SUITABLE TRIM AT EXISTING RAISED FLOOR TILE. EXTEND RACEWAY 6"± ABOVE CEILING AND 6"± BELOW RAISED FLOOR AND TERMINATE EACH END WITH WIREMOLD V6ØØ86, OR EQUAL, PANEL CONNECTOR TO PROTECT CABLES FOR ABRASION.

(P17) PROVIDE 8 NEW SIEMENS TYPE 'BL' BREAKERS IN EXISTING PANEL 'RP1'.

(P18) PROVIDE 6 NEW SIEMENS TYPE 'BL' BREAKERS IN EXISTING PANEL 'UP1'.

(P19) PROVIDE NEW TYPEWRITTEN CIRCUIT DIRECTORY FOR EXISTING PANELBOARDS TO REFLECT ALL CHANGES IN CIRCUITING.

State of Utah
Department of Administrative Services

Division of Facilities Construction & Management
4110 State Office Building
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CONSULTANTS

WHW ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whwengineering.com

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640
e-mail parchitects@comcast.net

ARCHITECTURE | PLANNING | DESIGN

ELECTRICAL
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64 West 1700 South
Salt Lake City, Utah 84115
(801) 484-8161 Fax: (801) 484-3538

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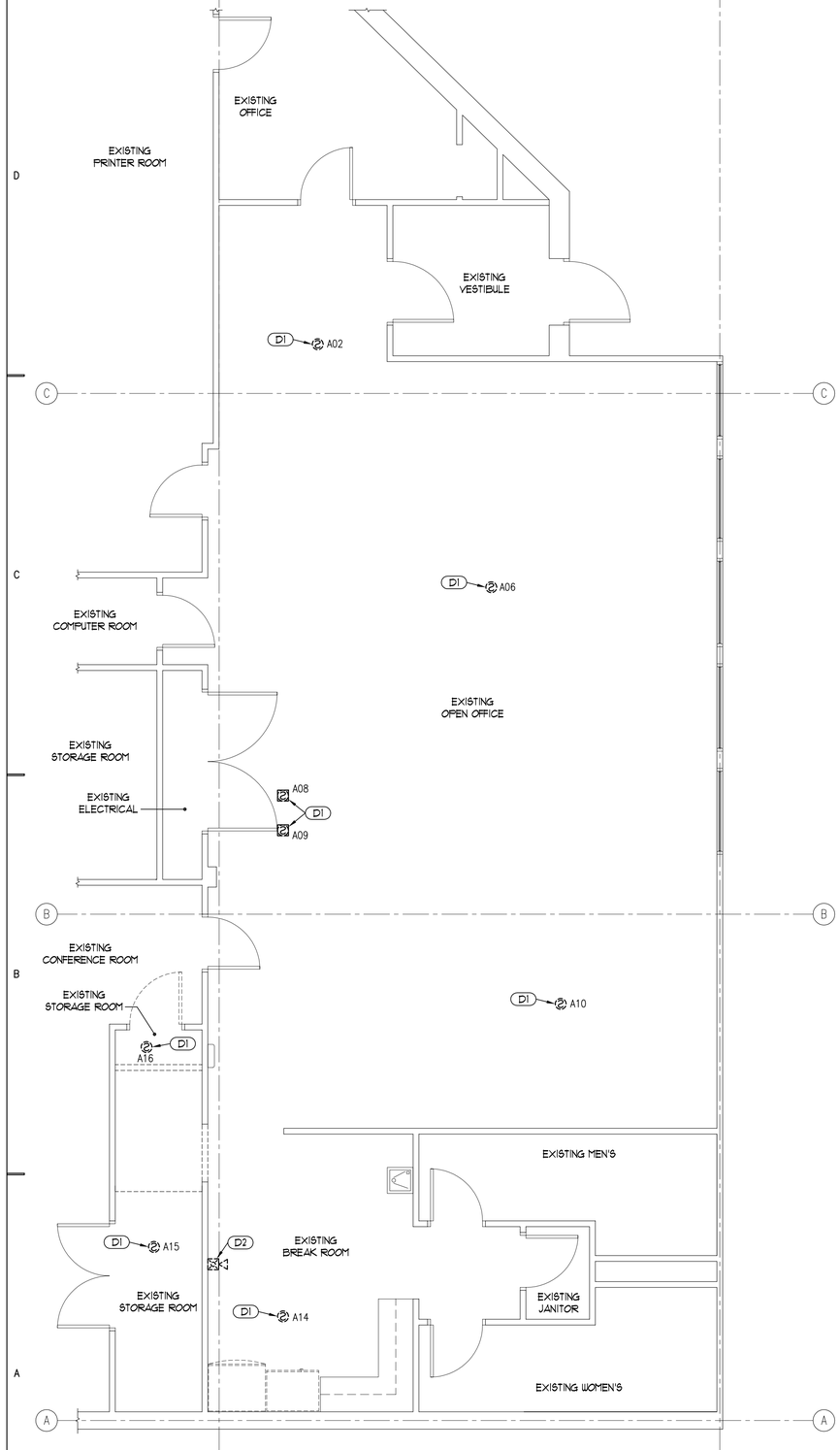
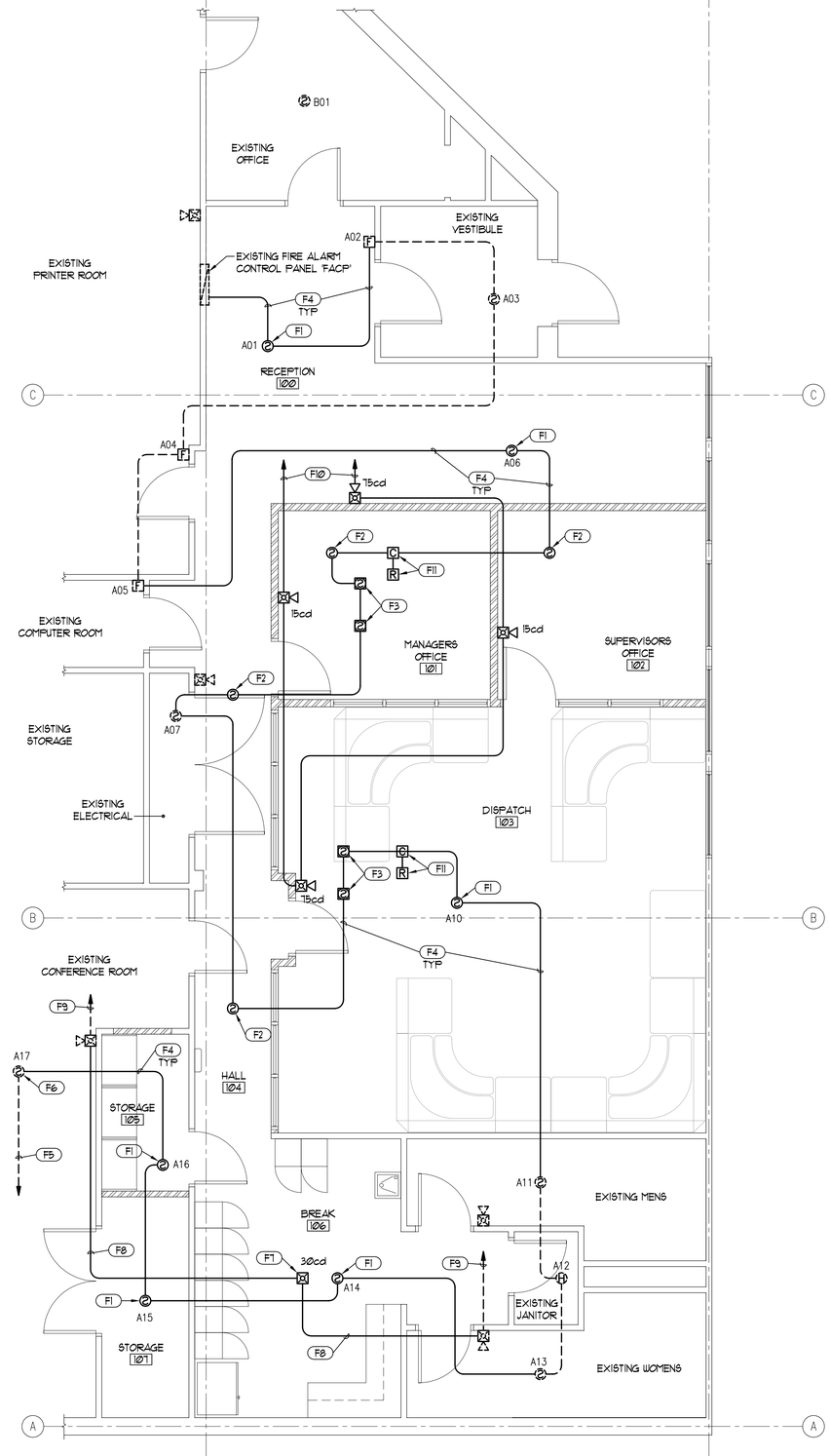


A1 FIRE ALARM DEMOLITON PLAN

SCALE: 1/4" = 1'-Ø"

NORTH



A3 NEW FIRE ALARM PLAN

SCALE: 1/4" = 1'-Ø"

NORTH

GENERAL NOTES:

1. SEE GENERAL ELECTRICAL NOTES, SHEET E-ØI.
2. THE EXISTING BUILDING IS PROTECTED THROUGHOUT BY AN AUTOMATIC FIRE ALARM SYSTEM WHICH IS TO REMAIN OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD.
3. SUBMIT REQUESTS FOR FIRE ALARM SYSTEM OUTAGES TO THE DFCM PROJECT MANAGER NOT LESS THAN 7 DAYS PRIOR TO ANY PROPOSED FIRE ALARM OUTAGES.
4. IMMEDIATELY NOTIFY THE DFCM PROJECT MANAGER IF THE FIRE ALARM IS UNINTENTIONALLY DISABLED AND IMMEDIATELY MAKE REPAIRS TO RESTORE THE SYSTEM TO AN OPERATIONAL CONDITION.
5. THE CONTRACTOR SHALL MAINTAIN A FIRE WATCH DURING ALL FIRE ALARM SYSTEM OUTAGES IN ACCORDANCE WITH IFC SECTION 9Ø1.7.
6. ANY WORK PERFORMED ON THE FIRE ALARM SYSTEM SHALL BE APPROVED IN ADVANCE BY THE FIRE ALARM SYSTEM FACTORY REPRESENTIVE. CONTACT SIMPLEX GRINNELL AT 8Ø1-262-94Ø6.
7. PROTECT EXISTING SMOKE AND HEAT DETECTORS IN AREAS OF CONSTRUCTION FROM EXCESSIVE DUST ACCUMULATION BY MEANS OF TEMPORARY DUST COVERS DURING DUST PRODUCING WORK OPERATIONS. REMOVE DUST COVERS IMMEDIATELY UPON COMPLETION OF DUST PRODUCING WORK.
8. CLEAN ALL EXISTING AND RELOCATED SMOKE AND HEAT DETECTORS AFFECTED BY CONSTRUCTION IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS UPON COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION.
9. TEST ALL SMOKE AND HEAT DETECTORS AFTER CLEANING AND PRIOR TO SUBSTANTIAL COMPLETION. TESTING SHALL BE PERFORMED BY A FACTORY AUTHORIZED AND TRAINED TECHNICIAN OF THE FIRE ALARM SYSTEM MANUFACTURER. CONTACT SIMPLEX GRINNELL AT 8Ø1-262-94Ø6.
10. INITIATING DEVICE ADDRESS NUMBERS ARE EXISTING. COORDINATE NEW DEVICE ADDRESS NUMBERS AND EXISTING DEVICE ADDRESS NUMBER CHANGES WITH FIRE ALARM SYSTEM FACTORY TECHNICIAN. PROVIDE NEW ADDRESS LABELS FOR ALL NEW, RELOCATED, AND EXISTING DEVICES TO MATCH EXISTING ADDRESS LABELS.
11. ALL EXISTING FIRE ALARM SYSTEM DEVICES SHOWN ARE TO REMAIN UNLESS NOTED OTHERWISE.

FIRE ALARM DEMOLITON PLAN KEYED NOTES:

(D1) RELOCATE EXISTING SMOKE DETECTORS FROM EXISTING CEILING TO NEW CEILING AND RECONNECT EXISTING INITIATING DEVICE CIRCUIT. PROVIDE TEMPORARY SUPPORT AND CONNECTIONS AS REQUIRED TO KEEP EXISTING DETECTORS AND CIRCUITS OPERATIONAL THROUGHOUT DEMOLITION AND CONSTRUCTION. SEE GENERAL NOTE 2, THIS SHEET.

(D2) REMOVE EXISTING FIRE ALARM HORN STROBE COMPLETE INCLUDING OUTLET BOX, WIRING, ACCESSIBLE CONDUIT, ETC. REPAIR EXISTING WALL AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW LOCKERS, SEE ARCHITECT'S PLANS.

(D3) REMOVE EXISTING DUCT MOUNTED SMOKE DETECTORS FROM EXISTING ROOFTOP UNIT TO BE REMOVED. DETECTORS ARE TO REMAIN OPERATIONAL UNTIL ROOFTOP UNIT IS SHUT DOWN FOR REMOVAL. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO KEEP EXISTING CIRCUIT OPERATIONAL THROUGHOUT DEMOLITION AND CONSTRUCTION. SEE GENERAL NOTE 2, THIS SHEET.

NEW FIRE ALARM PLAN KEYED NOTES:

(F1) EXISTING SMOKE DETECTOR RELOCATED FROM EXISTING CEILING TO NEW CEILING.

PROVIDE NEW SMOKE DETECTOR IN NEW CEILING.

(F2) EXISTING DUCT MOUNTED SMOKE DETECTORS RELOCATED FROM EXISTING ROOFTOP UNIT DUCTWORK TO NEW ROOFTOP UNIT RTU1 SUPPLY AND RETURN AIR DUCTS.

(F3) PROVIDE NEW DUCT MOUNTED SMOKE DETECTORS ON NEW ROOFTOP UNIT RTU2 SUPPLY AND RETURN AIR DUCTS.

(F4) PROVIDE NEW SIGNALING LINE CIRCUIT WIRING AND CONDUIT AS REQUIRED FOR CONNECTION OF NEW, RELOCATED, AND EXISTING INITIATING DEVICES.

(F5) EXISTING SIGNALING LINE CIRCUIT TO OTHER BUILDING INITIATING DEVICES AND RETURN CLASS A LOOP TO EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.

(F6) EXISTING SMOKE DETECTOR 'A17' LOCATED IN RAISED FLOOR SPACE OF EXISTING CONFERENCE ROOM.

(F7) PROVIDE NEW CEILING MOUNTED HORN/STROBE COMBINATION IN BREAK ROOM TO REPLACE WALL MOUNTED HORN/STROBE REMOVED BY DEMOLITION.

(F8) PROVIDE NEW NOTIFICATION APPLIANCE CIRCUIT WIRING AND CONDUIT AS REQUIRED FOR CONNECTION OF NEW AND EXISTING NOTIFICATION APPLIANCES.

(F9) EXISTING NOTIFICATION APPLIANCE CIRCUIT TO OTHER BUILDING NOTIFICATION APPLIANCES CLASS A LOOP TO EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.

(FIØ) PROVIDE NEW CLASS A, STYLE Z, NOTIFICATION APPLIANCE CIRCUIT TO EXISTING FIRE ALARM CONTROL PANEL FOR NEW HORN/STROBES AS INDICATED.

(FII) PROVIDE NEW ADDRESSABLE CONTROL MODULE AND NEW POWER RELAY FOR FAN SHUT DOWN OF NEW ROOFTOP UNITS. SEE TYPICAL FAN SHUT DOWN CONTROL WIRING DIAGRAM, SHEET E-6Ø1. PROGRAM CONTROL MODULES TO SHUT DOWN SUPPLY AIR FAN UPON ACTIVATION OF DUCT SMOKE DETECTORS OR ANY INITIATING DEVICE WITHIN THE AREAS SERVED BY THE ROOFTOP UNITS. FIELD COORDINATE CONNECTIONS WITH MECHANICAL CONTRACTOR AND FIRE ALARM SYSTEM TECHNICIAN.

State of Utah
Department of Administrative Services
Division of Facilities Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://www.dfcm.state.ut.us

CONSULTANTS

WHW ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whwengineering.com

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640
e-mail parchitects@comcast.net
ARCHITECTURE | PLANNING | DESIGN

ELECTRICAL
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64 West 1700 South
Salt Lake City, Utah 84115
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SHEET TITLE
FIRE ALARM PLANS

SHEET NO.
FA101

FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NO.	DESCRIPTION	LAMP
F-1	PMC LIGHTING	SPF13-DI-P18-2/DCT-4-WHT-277-EB10R	PENDANT MOUNTED, 4 FT, 2 LAMP ROW, DIRECT/INDIRECT FLOURESCENT FIXTURE WITH PERFORATED METAL DIFFUSER WITH OPAL ACRYLIC OVERLAY, 18" LONG RIGID PENDANTS, AND 277 VOLT, <10% THD PROGRAMMED START ELECTRONIC BALLAST.	2F32T8/TL835
F-2	PMC LIGHTING	SPF13-DI-P18-3/DCT-4-WHT-277-EB10R-2C1R	PENDANT MOUNTED, 4 FT, 3 LAMP ROW, DIRECT/INDIRECT FLOURESCENT FIXTURE WITH PERFORATED METAL DIFFUSER WITH OPAL ACRYLIC OVERLAY, 18" LONG RIGID PENDANTS, AND 277 VOLT, <10% THD PROGRAMMED RAPID START ELECTRONIC BALLASTS WIRED FOR INBOARD/OUTBOARD LAMP OPERATION.	3F32T8/TL835
F-3	PMC LIGHTING	SPF13-DI-P18-4/DCT-4-WHT-277-EB10R-2C1R	PENDANT MOUNTED, 4 FT, 3 LAMP ROW, DIRECT/INDIRECT FLOURESCENT FIXTURE WITH PERFORATED METAL DIFFUSER WITH OPAL ACRYLIC OVERLAY, 18" LONG RIGID PENDANTS, AND 277 VOLT, <10% THD PROGRAMMED RAPID START ELECTRONIC BALLASTS WIRED FOR INBOARD/OUTBOARD LAMP OPERATION.	4F32T8/TL835
F-4	PMC LIGHTING	SPF13-DI-P18-3/DCT-20-WHT-277-EB10R-2C1R	PENDANT MOUNTED, 20 FT, 3 LAMP ROW, DIRECT/INDIRECT FLOURESCENT FIXTURE WITH PERFORATED METAL DIFFUSER WITH OPAL ACRYLIC OVERLAY, 18" LONG RIGID PENDANTS, AND 277 VOLT, <10% THD PROGRAMMED START ELECTRONIC BALLASTS WIRED FOR INBOARD/OUTBOARD LAMP OPERATION. 20 FT OVERALL LENGTH CONSISTING OF 8 FT/4 FT/8 FT SECTIONS.	15F32T8/TL835
F-5	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA METALUX WILLIAMS	P214-132G-LD1x8-S-EP-277 1P3GS132-16SL-277-1/1-EB10R VRS1G-8LS-132-277-HR PM3GB-132-6LD-277-GEB10RS EP3GX-132-S161-277-ER81 U3G-D14-132-16S-EB8LH1-277	1' x 4', 1 LAMP, LAY-IN FLUORESCENT FIXTURE WITH FLOATING DOOR WITH BLACK REVEAL, FULL 3" DEEP, 6 CELL LOW IRIDESCENCE SEMI-SPECULAR ALUMINUM LOUVER AND ONE 1 LAMP 277 VOLT, <10% THD ELECTRONIC BALLAST.	1F32T8/TL835
F-6	PRESCOLITE	LF8CFH213TWEB-8CFH	RECESSED COMPACT FLOURESCENT DOWNLIGHT WITH SPECULAR CLEAR LOW IRRIDESCENT ALZAK REFLECTOR, NOMINAL 8" DIAMETER APERATURE AND 277 VOLT <10% THD ELECTRONIC BALLAST.	2CFT13W/35K
F-7	DUAL-LITE EXITRONIX LIGHTOLIER LITHONIA MCPHILBEN SURE-LITES	SE-S-R-BW G40OU-LB-BL LD-A-1-G-A LES-1G-120/277 3OVL-1-G CX-6-1-G	UNIVERSAL MOUNTED, SINGLE FACE, LIGHT EMITTING DIODE (LED) EXIT LIGHT WITH DIE CAST ALUMINUM HOUSING WITH BLACK FINISH, GREEN LETTERS ON BRUSHED ALUMINUM STENCIL FACE, UNIVERSAL KNOCKOUT CHEVRON ARROWS AND 120/277 DUAL VOLTAGE INPUT.	FURNISHED W/ FIXTURE

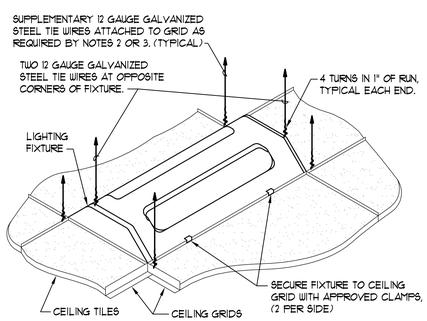
EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	CIRCUIT NUMBER	VOLTS	PHASE	WATTS H.P.	BREAKER	STARTERS FURNISH	STARTERS INSTALL	STARTERS SIZE	AUX. CONT.	LOCATION
RTU 1	ROOFTOP AIR CONDITIONER (ELECTRIC HEAT)	M-10	480	3	341 AMPS	3P-50A FUSE	M	M	M	-	ON ROOF
RTU 2	ROOFTOP AIR CONDITIONER (ELECTRIC HEAT)	M-13	480	3	333 AMPS	3P-45A FUSE	M	M	M	-	ON ROOF

E - ELECTRICAL CONTRACTOR
M - MECHANICAL CONTRACTOR

SYMBOL LIST

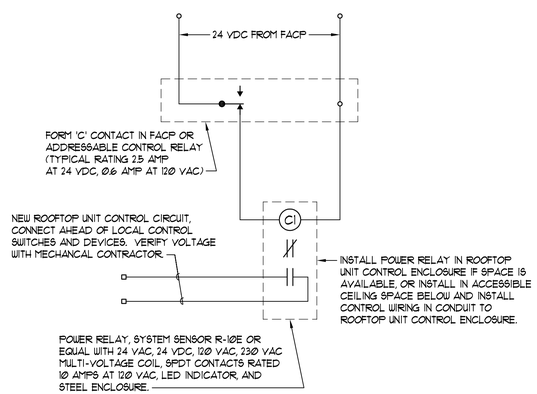
SYMBOL	DESCRIPTION
	NEW CEILING MOUNTED FIXTURE
	NEW WALL MOUNTED FIXTURE
	NEW RECESSED FIXTURE
	NEW FLUORESCENT FIXTURE
EM	NEW FIXTURE CONNECTED TO UNSWITCHED EMERGENCY LIGHT CIRCUIT
	NEW FIXTURE CONNECTED TO SWITCHED EMERGENCY LIGHT CIRCUIT
	NEW EXIT LIGHT WITH ARROW INDICATING DIRECTION OF EXIT
	EXISTING CEILING MOUNTED FIXTURE
	EXISTING WALL MOUNTED FIXTURE
	EXISTING RECESSED FIXTURE
	EXISTING FLUORESCENT FIXTURE
EM	EXISTING FIXTURE CONNECTED TO UNSWITCHED EMERGENCY LIGHT CIRCUIT
	EXISTING FIXTURE CONNECTED TO SWITCHED EMERGENCY LIGHT CIRCUIT
	EXISTING EXIT LIGHT
a	FIXTURE WITH LETTER INDICATING CONTROLLING SWITCH
$	NEW SINGLE POLE SWITCH
$3	NEW THREE WAY SWITCH
$a	SWITCH WITH LETTER INDICATING CONTROLLED FIXTURES
$M	NEW OCCUPANCY SENSOR WALL SWITCH
$M2	NEW DUAL LEVEL OCCUPANCY SENSOR WALL SWITCH
$R	RELOCATED SWITCH
$E	EXISTING SINGLE POLE SWITCH
$3E	EXISTING THREE WAY SWITCH
$2E	EXISTING DOUBLE POLE SWITCH
J	NEW JUNCTION BOX
J	EXISTING JUNCTION BOX
	NEW DUPLEX RECEPTACLE
	NEW DOUBLE DUPLEX RECEPTACLE
GFI	NEW RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	EXISTING SINGLE RECEPTACLE
	EXISTING DUPLEX RECEPTACLE
EWC	RECEPTACLE FOR ELECTRIC WATER COOLER
	NEW TELEPHONE OUTLET
	NEW TELEPHONE/DATA OUTLET
	EXISTING TELEPHONE OUTLET
	EXISTING TELEPHONE/DATA OUTLET
	EXISTING COMMUNICATION OUTLET BOX
	EXISTING COMBINATION POWER AND TELEPHONE/DATA FLOOR OUTLET
	EXISTING POWER PANELBOARD, 120/208 VOLT, 3 PHASE
	EXISTING POWER PANELBOARD, 277/480 VOLT, 3 PHASE
T	EXISTING TRANSFORMER
A-13B-7	BRANCH CIRCUIT HOMERUN INDICATING PANEL AND CIRCUIT NUMBERS
	NEW BRANCH CIRCUIT CONCEALED IN WALL OR CEILING
	NEW BRANCH CIRCUIT EXPOSED ON WALL OR CEILING
	EXISTING BRANCH CIRCUIT
	NEW MOTOR
F	NEW DISCONNECT SWITCH, 'F' INDICATES FUSED, 'NF' INDICATES NON-FUSED
	EXISTING FIRE ALARM CONTROL PANEL
F	EXISTING FIRE ALARM PULL STATION
	EXISTING FIRE ALARM SMOKE DETECTOR
	EXISTING FIRE ALARM DUCT MOUNTED SMOKE DETECTOR
H	EXISTING FIRE ALARM HEAT DETECTOR
	EXISTING FIRE ALARM HORN/STROBE COMBINATION
	NEW FIRE ALARM SMOKE DETECTOR
	NEW FIRE ALARM DUCT MOUNTED SMOKE DETECTOR
15cd	NEW FIRE ALARM HORN/STROBE INDICATING MINIMUM EFFECTIVE CANDLEPOWER
30cd	NEW CEILING MOUNTED FIRE ALARM HORN/STROBE INDICATING MINIMUM ECP
C	NEW FIRE ALARM ADDRESSABLE CONTROL RELAY
R	NEW FIRE ALARM FIRE SAFETY FUNCTION POWER RELAY
RTU 2	EQUIPMENT SCHEDULE SYMBOL
F-2	FIXTURE SCHEDULE SYMBOL
2	KEYED NOTE SYMBOL
A2 E-601	DETAIL NUMBER OR SECTION LETTER SHEET ON WHICH DETAIL OR SECTION IS SHOWN
WP	INDICATES ITEM IN WEATHERPROOF (NEMA 3R MINIMUM) ENCLOSURE



FIXTURE SUPPORT NOTES:

1. ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100% OF THE LIGHTING FIXTURE WEIGHT ACTING ANY DIRECTION.
2. FOR INTERMEDIATE DUTY CEILING SYSTEM, PROVIDE A SUPPLEMENTARY 12 GAUGE HANGER ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE AS SHOWN ON DETAIL. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.
3. FOR HEAVY DUTY CEILING SYSTEM, SUPPLEMENTARY HANGERS ARE NOT REQUIRED IF A 48" MODULAR HANGER WIRE PATTERN IS USED AND THE LIGHTING FIXTURE IS SUPPORTED FROM MAIN TEES. SUPPLEMENTARY 12 GAUGE HANGERS ARE REQUIRED WHERE THE FIXTURE IS SUPPORTED FROM CROSS TEES WITH LESS CARRYING CAPACITY THAN THE MAIN TEES.
4. LIGHTING FIXTURES WEIGHING LESS THAN 56 LBS. SHALL HAVE, IN ADDITION TO THE REQUIREMENTS OUTLINED ABOVE, TWO 12 GAUGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
5. LIGHTING FIXTURES WEIGHING 56 LBS. OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.
6. PENDANT HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING 9 GAUGE WIRES OR APPROVED ALTERNATE SUPPORT WITHOUT USING CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
7. COORDINATE SUPPORT REQUIREMENTS AND HANGER WIRE INSTALLATION WITH CEILING CONTRACTOR.

TYPICAL LIGHTING FIXTURE SUPPORT DETAIL
NOT TO SCALE



TYPICAL FAN SHUT DOWN CONTROL WIRING DIAGRAM
SCHEMATIC

State of Utah
Department of Administrative Services
Division of Facilities Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://www.dfcm.state.ut.us

CONSULTANTS

WHW ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536
EMAIL: excellence@whwengineering.com

P+A architects
821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
F: 801.485.4640
e-mail parchitects@comcast.net
ARCHITECTURE | PLANNING | DESIGN

ELECTRICAL
Thomas and Kolkman Engineering Co. Inc.
64 West 1700 South
Salt Lake City, Utah 84115
(801) 484-8161 Fax: (801) 484-3538

PROJECT NAME & ADDRESS

DEPARTMENT OF SAFETY RICHFIELD ITS UHP DISPATCH MODIFICATION

DFCM No. 06298550

Richfield, Utah 84701

MARK	DATE	REVISION

PROJECT MANAGER: WP
DRAWN BY: W.B.G.
CHECKED BY: R.G.K.
DATE: 09/24/07
WHW JOB NO.: 06054

REGISTERED PROFESSIONAL ENGINEER
RAYMOND G. KOLKMAN
175780
STATE OF UTAH

SHEET TITLE
SYMBOL LIST, SCHEDULES AND DIAGRAMS

SHEET NO.
E-601